Chevron

Dave Patten
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
6111 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 543-1740
Fax (925) 543-2324
drpatten@chevron.com

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

Re: Chevron Service Station No. 9-0329
340 Highland Avenue
Piedmont, CA

I have reviewed the attached report dated January 26, 2011.

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 & 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 to the best of my knowledge.

Sincerely,

Dave Patten
Project Manager

Attachment: Report

CONESTOGA-ROVERS
& ASSOCIATES

5900 Hollis Street, Suite A
Emeryville, California 94608
Telephone: (510) 420-0700 Fax: (510) 420-9170
http://www.craworld.com

January 26, 2011 Reference No 311776

Mr. Mark Detterman
Alameda County Health Care Service – Environmental Health Department
113 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Re: Response to Technical Comments
Former Chevron Station 9-0329
340 Highland Avenue
Piedmont, California
Fuel Leak Case No. RO0000269

Dear Mr. Mark Detterman

On behalf of Chevron Environmental Management Company (Chevron), Conestoga-Rovers & Associates (CRA) is submitting this response to the technical comments raised in your November 19, 2010 letter regarding the site referenced above (Figure 1). A copy of the November 19, 2010 letter is included in Attachment A.

Sampling City of Piedmont Well

On January 17, 2007, Gettler-Ryan, Inc. (G-R) of Dublin, California sampled the City of Piedmont Well Number 4 (Well 4), which is approximately 580 feet to the south and located within Piedmont Park. The groundwater sample from Well 4 contained 260 micrograms per liter µg/L) total petroleum hydrocarbons as diesel (TPHd), 0.7 µg/L toluene, and 0.5 µg/L xylenes. The G-R field data sheet is presented as Attachment B and Lancaster Laboratories' analytical results are presented as Attachment C.

The source of these hydrocarbon detections is unclear for the following reasons:

- There are three other open and uninvestigated environmental cases in the area that could be a potential source for the hydrocarbons detected in Well 4 (Figure 1). This includes a diesel tank that was removed in 1988 at 120 Vista Avenue which is between Well 4 and the site. No additional investigation has been completed at 120 Vista Avenue since the tank removal.
- Dissolved total petroleum hydrocarbons as gasoline, benzene, toluene, ethylbenzene, xylenes, and fuel oxygenates originating from the former Chevron site are horizontally delineated by the exiting well network and borings HA16, U-4, B-2, and B-4.
- No MTBE was detected in Well 4. If the hydrocarbons detected in Well 4 originated from the former Chevron site, MTBE should also have been detected.

Repair of Grease Interceptor/Drain and Asphalt Paving

As shown in the photo below, it appears that the asphalt surrounding the interceptor drain has been repaired. CRA and Chevron have attempted to gather information related to the repair, but no one has replied to our inquiries. Chevron does not own this property or facility and is not able to control the repairs requested by the ACEH.

Utility Map

All utility locations and depths and diameters in the vicinity of the site are depicted on Figure 2. Based on CRA's site visit and Pacific Environmental Group's 1998 utility survey, the grease interceptor drain is connected to the sanitary sewer, not the storm water drains.[1] A sanitary

[1] Pacific Environmental Group, Inc., *Workplan for Groundwater Investigation* date September 9, 1998.

sewer man hole is directly adjacent to the grease interceptor drain as seen in the photo above. CRA verified the storm water drain locations shown on Figure 2 and the storm water lines appear to be located on the south side of Highland Avenue. There is no evidence that any storm water lines exist adjacent to the site. The City of Piedmont verified that the sanitary sewer and storm drain utility locations on CRA's map are accurate. The City of Piedmont's response and findings are presented as Attachment D. Based on our investigation, the grease interceptor drain is connected to the sanitary sewer.

Recommendations

No diesel USTs are known to have existed at the former Chevron station. The only TPHd data collected at the former Chevron site was groundwater samples from the monitoring wells on May 3, 2006. Based on the low TPHd concentrations detected during the May 3, 2006 groundwater sampling event and the TPHd detected in Well 4, CRA recommends adding the TPHd with silica gel clean up analysis to semi-annual groundwater monitoring and sampling program. CRA also recommends re-sampling Well 4. The groundwater sampling of Well 4 will take place on the same day as a scheduled site monitoring and sampling event, if access to Well 4 can be obtained from the City of Piedmont. We recommend completing a forensic analysis of the samples to evaluate if hydrocarbons detected in Well 4 are similar to those from the former Chevron site.

CONESTOGA-ROVERS
& ASSOCIATES

Regards,

CONESTOGA-ROVERS & ASSOCIATES

Kiersten Hoey

Nathan Lee PG 8486

PROFESSIONAL GEOLOGIST
NATHAN S. LEE
No.8486
STATE OF CALIFORNIA

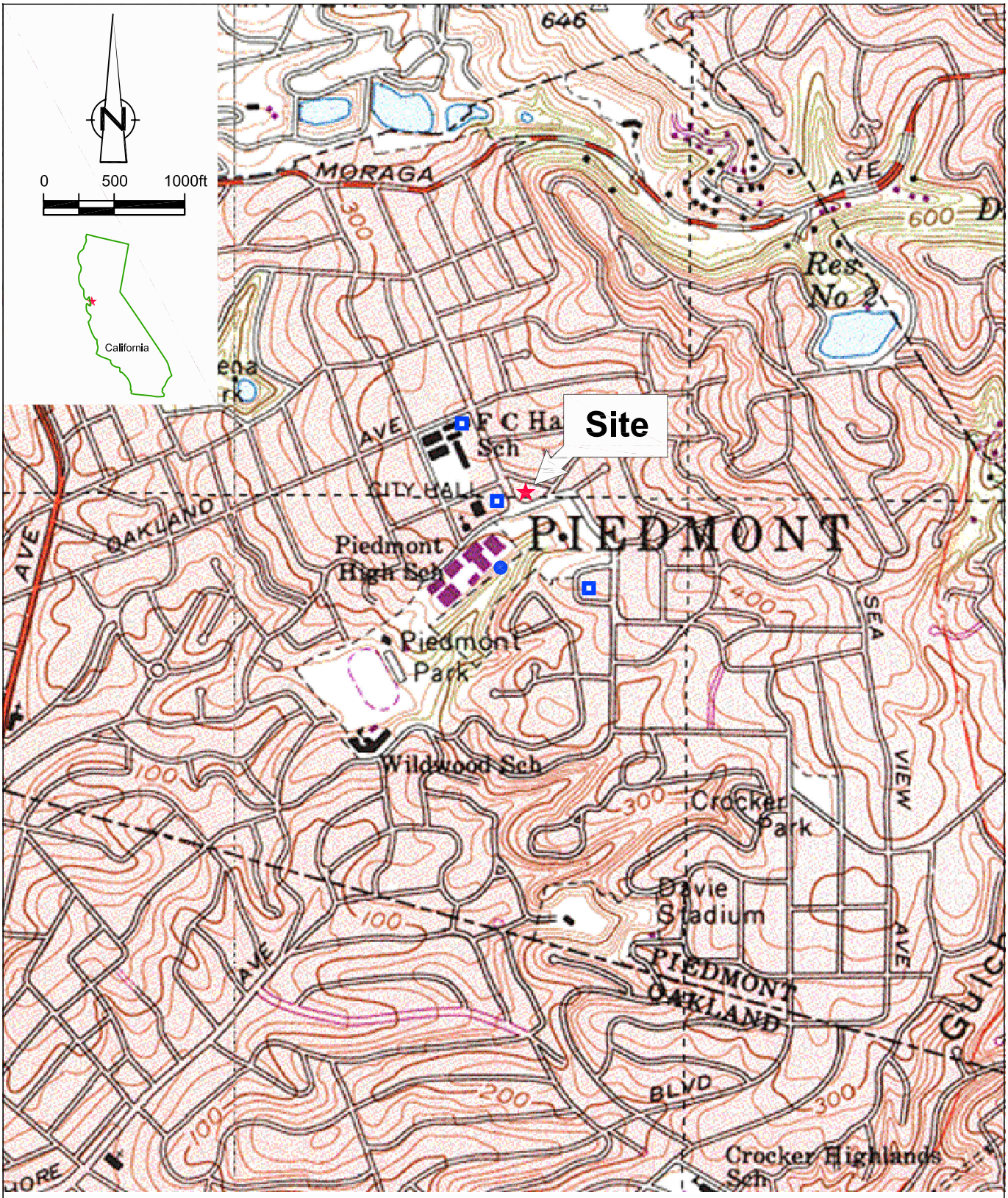
KH/doh/5
Encl.

Figure 1	Vicinity Map
Figure 2	Site Map

Attachment A	Regulatory Letter
Attachment B	Gettler-Ryan's Field Data Sheet
Attachment C	Lancaster Laboratories' Analytical Results
Attachment D	City of Piedmont Utility Map

cc: Mr. Dave Patten, Chevron
Mr. Chuck Headlee, RWQCB - San Francisco Bay Region
Mr. Chester Nakahara, City of Piedmont
Bains Tarvinder Trust

FIGURES

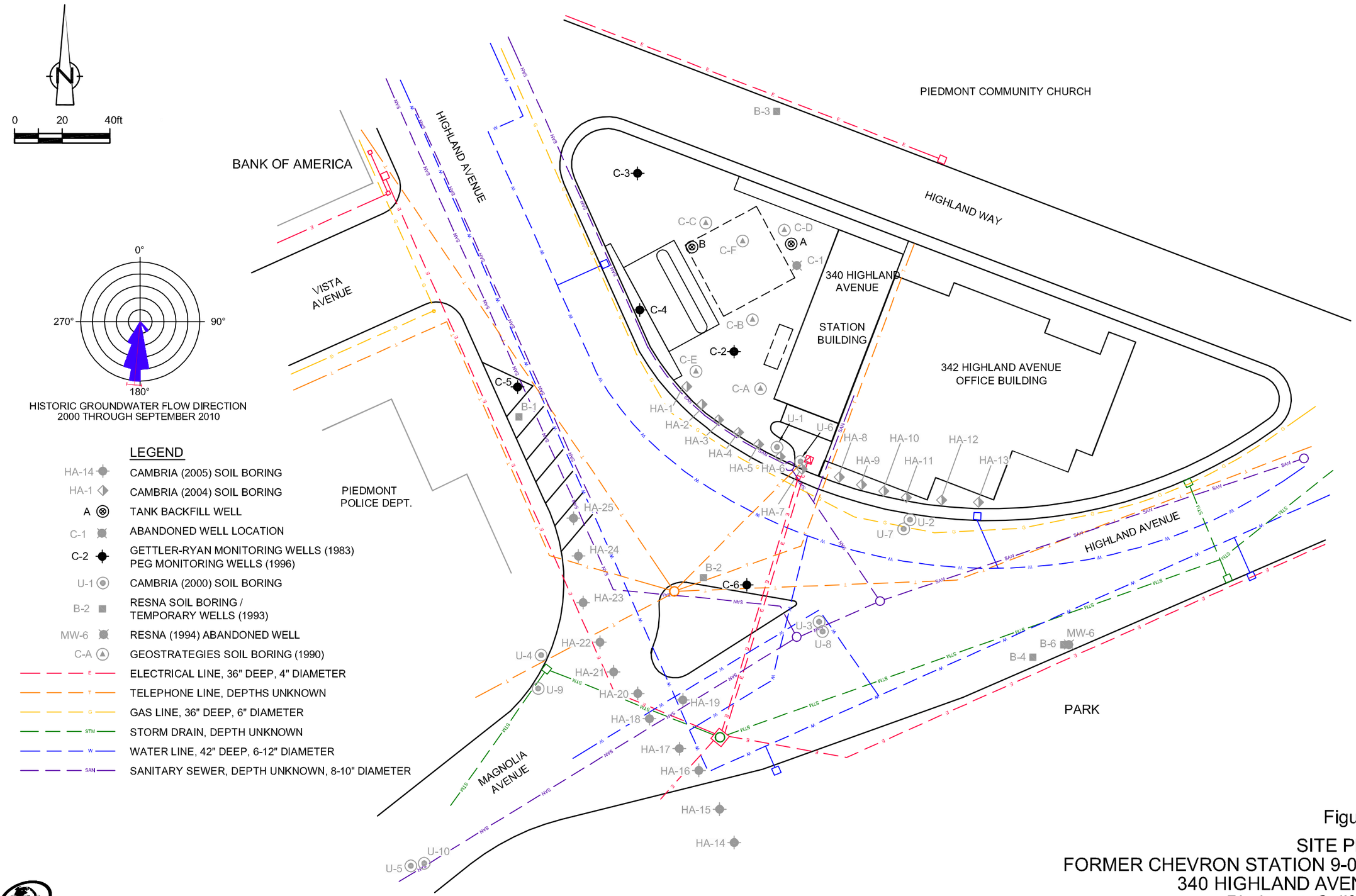


- OPEN CASE SITE
- CITY OF PIEDMONT WELL #4

Figure 1

VICINITY MAP
FORMER CHEVRON STATION 9-0329
340 HIGHLAND AVENUE
Piedmont, California

I:\Chevron\3117--\311776 9-0329 Piedmont\311776-FIGURES\311776-EM003.DWG



BASEMAP MODIFIED FROM PACIFIC ENVIRONMENTAL GROUP, INC.

Figure 2

SITE PLAN
FORMER CHEVRON STATION 9-0329
340 HIGHLAND AVENUE
Piedmont, California

ATTACHMENT A

REGULATORY LETTER

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Director

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

November 19, 2010

Mr. Dave Patten
Chevron Corporation
6111 Bollinger Canyon Rd, BR-Y-3608
San Ramon, CA 94583
(sent via electronic mail to DRPatten@chevron.com)

Mr. Howard Perera
340 Highland Drive
Piedmont, CA 94611

Mr. Ravi Randhawa
5501 San Antonio
Pleasanton, CA 94566

Mr. John Robinson
Hoffman Investment Company
1035 Edwards Road
Burlingame, CA 94010

Mr. Jeff Orwig
66 Ambleside Court
Danville, CA 94526

Mr. Fred Manchouri
1065 Shuey Drive
Moraga, CA 94556

Mr. Mir Ghafari
68 Bates Blvd.
Orinda, CA 94563

Subject: Request for Additional Information Report; Fuel Leak Case No. RO0000269; (Global ID # T0600101885); Chevron #9-0329, 340 Highland Avenue, Piedmont, CA 94611

Dear Gentlemen:

Alameda County Environmental Health (ACEH) staff has reviewed the case file including the *Soil and Groundwater Investigation Report,* dated August 8, 2005, the December 4, 2006 ACEH directive letter, a December 5, 2006 City of Piedmont letter, an email correspondence from Robert Foss of Cambria dated December 22, 2006, and the *First Semi-Annual 2010 Groundwater Monitoring and Sampling Report,* dated April 30, 2010. Cited documents submitted on your behalf were generated by either Cambria or Conestoga-Rovers & Associates (CRA). Based on the review of the case file it appears that pertinent site information previously requested of you has not been received, preventing a clearer understanding of the site. We request that you address the following technical comments and send us the document requested below.

TECHNICAL COMMENTS

1. **Sampling City of Piedmont Well –** Several of the referenced documents indicate intent to sample the City of Piedmont well, located at a distance of 0.11 miles from the site. The referenced December 22nd email indicates the well was expected to have been sampled prior to the January 5, 2007 deadline. The status of this action appears to remain unreported. Please update ACEH as the results of the sampling event by the date identified below.

2. **Repair of Grease Interceptor / Drain and Asphalt Paving –** The referenced City of Piedmont letter was concerned with the effectiveness of a grease interceptor / drain located at the southwestern corner of the station and the repair of asphalt paving along the sidewalk, included three color photos of the area of concern (including visible drain grating), and set deadlines for the repair work. The status of this action appears to remain unreported, including the City of Piedmont requested plans and drawings.

   Review of site documents suggests repair and improvement of the grease interceptor / drain can be of importance to closure at the site. The two hand auger bore transects appear to indicate a general lack of near surface groundwater east of bore U-1 or HA-6. These bores appear to have been installed in close proximity to the grease interceptor / drain and the surfacing water depicted in the

photographs provided by the City. Based on the elevated results of grab groundwater samples collected in hand auger bores HA-1 to HA-5, the exceptionally shallow depth that these samples were collected at (0.5 to 1.5 feet below surface grade), and the lack of collectable groundwater east of bores U-1 and HA-6 in a generally wetter period of the year (March and October, respectively), it would be reasonable to assume that the surfacing water contained petroleum hydrocarbons at similar concentrations, and that the groundwater / surfacing water utilizes the drain in part as a preferential conduit (despite several attempts to collect samples along conduits). Alternatively the surfacing water may entirely surface to become a non-point source concern to the local creek. Because similar groundwater concentrations were documented in well C-2 in the recent September 2, 2010 monitoring event, it is reasonable to assume these general conditions remain if they have not been corrected.

By the date identified below please update ACEH as to the status of a repair or improvement of the interceptor / drain, or to the status of permanent management and control of a potential non-point source. Please also update or otherwise clarify existing utility maps such that all utilities are clearly depicted, that all utility depths are clearly depicted and documented, and investigate where utilities may discharge (especially storm drain).

TECHNICAL REPORT REQUEST

Please submit the following deliverable to ACEH (Attention: Mark Detterman), according to the following schedule:

- **January 31, 2011** – Additional Information Report

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.

Should you have any questions, please contact me at (510) 567--6876 or send me an electronic mail message at mark.detterman@acgov.org.

Sincerely,

Mark E. Detterman, PG, CEG
Hazardous Materials Specialist

Enclosures: Attachment 1 – Responsible Party (ies) Legal Requirements / Obligations
Electronic Report Upload (ftp) Instructions

cc: Nathan Lee, Conestoga-Rovers & Associates, 5900 Hollis Street, Suite A, Emeryville, CA 94608; (sent via electronic mail to NLee@CRAworld.com)

Donna Drogos, ACEH, (sent via electronic mail to donna.drogos@acgov.org)
Mark Detterman, ACEH, (sent via electronic mail to mark.detterman@acgov.org)
Geotracker, e-File

Attachment 1

Responsible Party(ies) Legal Requirements / Obligations

REPORT REQUESTS

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

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to 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 Instructions." 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. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all 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 monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/electronic_submittal/report_rqmts.shtml.

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.

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.

Attachment 1

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	**REVISION DATE:** July 20, 2010
	ISSUE DATE: July 5, 2005
	PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010
SECTION: Miscellaneous Administrative Topics & Procedures	**SUBJECT:** Electronic Report Upload (ftp) Instructions

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.

REQUIREMENTS

- **Please do not submit reports as attachments to electronic mail.**
- Entire report including cover letter must be submitted to the ftp site as **a single portable document format (PDF) with no password protection**.
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- **Signature pages and perjury statements must be included and have either original or electronic signature.**
- **Do not password protect the document**. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted**.
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:

  RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Submission Instructions

1) Obtain User Name and Password
   a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
      i) Send an e-mail to dehloptoxic@acgov.org
   b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses**, and the **Case Numbers (RO# available in Geotracker) you will be posting for**.

2) Upload Files to the ftp Site
   a) Using Internet Explorer (IE4+), go to ftp://alcoftp1.acgov.org
      (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
   b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
   c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
   d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
   e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.

3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
   a) Send email to dehloptoxic@acgov.org notify us that you have placed a report on our ftp site.
   b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
   c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
   d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

ATTACHMENT B

GETTLER-RYAN'S FIELD DATA SHEET

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: **Chevron #9-0329** Job Number: **386493**

Site Address: **340 Highland Avenue** Event Date: 1/17/07 (inclusive)

City: **Piedmont, CA** Sampler: Kyle E.

Well ID: Piedmont #4 Date Monitored: 1/17/07 Well Condition: OK

Well Diameter: 6 in.

Total Depth: 250.20 ft.

Depth to Water: 19.80 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

230.20 xVF 1.50 = 345 x3 case volume= Estimated Purge Volume: 1035 gal.

Purge Equipment:

- Disposable Bailer: ____
- Stainless Steel Bailer: ____
- Stack Pump: ✓
- Suction Pump: ____
- Grundfos: ____
- Other: ____

Sampling Equipment:

- Disposable Bailer: ✓
- Pressure Bailer: ____
- Discrete Bailer: ____
- Other: ____

Time Started: ____ (2400 hrs)
Time Completed: ____ (2400 hrs)
Depth to Product: ____ ft
Depth to Water: ____ ft
Hydrocarbon Thickness: ____ ft
Visual Confirmation/Description: ____

Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ____ gal
Amt Removed from Well: ____ gal
Water Removed: ____
Product Transferred to: ____

Start Time (purge): 0852 Weather Conditions: Sunny

Sample Time/Date: 1104 / 1/17/07 Water Color: Brown Odor: NO

Purging Flow Rate: 5 gpm. Sediment Description: Heavy

Did well de-water? NO If yes, Time: — Volume: — gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1001	345	6.41	498	14.4		
1032	450	6.67	493	17.5		
1041	451	6.89	477	16.7		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
Piedmont #4	6 x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)
	2x 500ml Amber	YES	NP	LANCASTER	TPH-D(8015)

COMMENTS: Stopped purging at 450 gal because parameter had stabilized

Add/Replaced Lock: ____ Add/Replaced Plug: ____ Size: ____

ATTACHMENT C

LANCASTER LABORATORIES' ANALYTICAL RESULTS

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1022021. Samples arrived at the laboratory on Thursday, January 18, 2007. The PO# for this group is 0015013217 and the release number is SINHA.

Client Description			Lancaster Labs Number
QA-T-070117	NA	Water	4961246
Piedmont#4-W-070117	Grab	Water	4961247

ELECTRONIC COPY TO Cambria c/o Gettler-Ryan Attn: Cheryl Hansen

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Angela M Miller at (717) 656-2300

Respectfully Submitted,

Marla S. Lord
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Lancaster Laboratories Sample No. WW 4961246

QA-T-070117 NA Water
Facility# 90329 Job# 386493 GRD
340 Highland-Piedmont T0600101885 QA
Collected:01/17/2007

Account Number: 10904

Submitted: 01/18/2007 09:20
Reported: 02/07/2007 at 09:22
Discard: 03/10/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

PIEQA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	TPH GRO SW-846 8015B mod	1	01/19/2007 18:02	Martha L Seidel	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	01/24/2007 14:53	Dawn M Harle	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/19/2007 18:02	Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/24/2007 14:53	Dawn M Harle	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Lancaster Laboratories Sample No. WW 4961247

Piedmont#4-W-070117 Grab Water
Facility# 90329 Job# 386493 GRD
340 Highland-Piedmont T0600101885 Piedmont#4
Collected:01/17/2007 11:04 by KE

Account Number: 10904

Submitted: 01/18/2007 09:20
Reported: 02/07/2007 at 09:22
Discard: 03/10/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

PIEP4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	250.	ug/l	5
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. Due to excessive foaming of the sample, normal reporting limits were not attained.					
06609	TPH-DRO (Waters)	n.a.	260.	50.	ug/l	1
06058	BTEX+5 Oxygenates+EDC+EDB					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	2.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	0.7	0.5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	0.5	0.5	ug/l	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	TPH GRO SW-846 8015B mod	1	01/20/2007 04:17	Martha L Seidel	5
06609	TPH-DRO (Waters)	SW-846 8015B	1	01/22/2007 14:41	Tracy A Cole	1
06058	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	01/24/2007 16:49	Dawn M Harle	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/20/2007 04:17	Martha L Seidel	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/24/2007 16:49	Dawn M Harle	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	01/19/2007 09:30	Kerrie A Greenfield	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Lancaster Laboratories Sample No. WW 4961247

Piedmont#4-W-070117 Grab Water
Facility# 90329 Job# 386493 GRD
340 Highland-Piedmont T0600101885 Piedmont#4
Collected:01/17/2007 11:04 by KE

Account Number: 10904

Submitted: 01/18/2007 09:20
Reported: 02/07/2007 at 09:22
Discard: 03/10/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

PIEP4

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Quality Control Summary

Client Name: Chevron Group Number: 1022021
Reported: 02/07/07 at 09:22 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 070180031A	Sample number(s): 4961247							
TPH-DRO (Waters)	N.D.	29.	ug/l	83	94	63-119	13	20
Batch number: 07019A54A	Sample number(s): 4961246							
TPH-GRO - Waters	N.D.	50.	ug/l	130	127	70-130	3	30
Batch number: 07019A54B	Sample number(s): 4961247							
TPH-GRO - Waters	N.D.	50.	ug/l	130	127	70-130	3	30
Batch number: D070242AA	Sample number(s): 4961246-4961247							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	92		73-119		
di-Isopropyl ether	N.D.	0.5	ug/l	104		70-123		
Ethyl t-butyl ether	N.D.	0.5	ug/l	94		74-120		
t-Amyl methyl ether	N.D.	0.5	ug/l	85		79-113		
t-Butyl alcohol	N.D.	2.	ug/l	104		69-127		
Benzene	N.D.	0.5	ug/l	98		85-117		
1,2-Dichloroethane	N.D.	0.5	ug/l	98		77-132		
Toluene	N.D.	0.5	ug/l	97		85-115		
1,2-Dibromoethane	N.D.	0.5	ug/l	97		81-114		
Ethylbenzene	N.D.	0.5	ug/l	96		82-119		
Xylene (Total)	N.D.	0.5	ug/l	98		83-113		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 07019A54A	Sample number(s): 4961246 UNSPK: P961166								
TPH-GRO - Waters	126		63-154						
Batch number: 07019A54B	Sample number(s): 4961247 UNSPK: P961166								
TPH-GRO - Waters	126		63-154						
Batch number: D070242AA	Sample number(s): 4961246-4961247 UNSPK: P961216								
Methyl Tertiary Butyl Ether	93	94	69-127	0	30				
di-Isopropyl ether	107	106	75-130	1	30				
Ethyl t-butyl ether	96	96	78-119	0	30				
t-Amyl methyl ether	86	86	72-125	1	30				
t-Butyl alcohol	94	92	64-130	2	30				
Benzene	106	106	83-128	0	30				
1,2-Dichloroethane	102	103	70-143	1	30				
Toluene	105	105	83-127	0	30				
1,2-Dibromoethane	99	99	78-120	0	30				

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron Group Number: 1022021
Reported: 02/07/07 at 09:22 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethylbenzene	104	103	82-129	1	30				
Xylene (Total)	105	103	82-130	2	30				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TPH-DRO (Waters)
Batch number: 070180031A

	Orthoterphenyl
4961247	87
Blank	90
LCS	89
LCSD	98
Limits:	59-131

Analysis Name: TPH-GRO - Waters
Batch number: 07019A54A

	Trifluorotoluene-F
4961246	94
Blank	102
LCS	103
LCSD	102
MS	103
Limits:	63-135

Analysis Name: TPH-GRO - Waters
Batch number: 07019A54B

	Trifluorotoluene-F
4961247	102
Blank	93
LCS	103
LCSD	102
MS	103
Limits:	63-135

Analysis Name: BTEX+MTBE by 8260B
Batch number: D070242AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4961246	103	103	105	105
4961247	108	102	107	110
Blank	100	99	106	106

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron Group Number: 1022021
Reported: 02/07/07 at 09:22 AM

Surrogate Quality Control

LCS	101	100	103	108
MS	104	102	108	112
MSD	104	101	105	111
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

011707-07

For Lancaster Laboratories use only

Acct. #: 10904 Sample # 4961246-47 Group #: 001357

Group# 1022021

Facility #: SS#9-0329-OML G-R#386493 Global ID#T0600101885

Site Address: 340 HIGHLAND AVENUE, PIEDMONT, CA

Chevron PM: SS Lead Consultant: CAMBRIACE

Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, Ca. 94568

Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)

Consultant Phone #: 925-551-7555 Fax #: 925-551-7899

Sampler: Kyle Erbland

Analyses Requested

Preservation Codes

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water (Potable / NPDES)	Matrix: Oil / Air	Total Number of Containers	BTEX + MTBE 8260 / 8021	TPH 8015 MOD GRO	TPH 8015 MOD DRO / Silica Gel Cleanup	8260 full scan	Oxygenates 8260	Total Lead Method	Dissolved Lead Method
QA	1/17/07		X			X		2	X	X					
Piedmont #4	↓	1104	X			X		8	X	X	X		X		

Preservation Codes: H, H, H

Preservative Codes

H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

- ☐ J value reporting needed
- ☒ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation

- ☐ Confirm highest hit by 8260
- ☐ Confirm all hits by 8260
- ☐ Run ____ oxy's on highest hit
- ☐ Run ____ oxy's on all hits

Comments / Remarks

Per Bob Herron Ethanol is not required.
A. Miller
1/19/07

Turnaround Time Requested (TAT) (please circle)

STD. TAT 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)

QC Summary Type I - Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

EDF/EDD

	Date	Time		Date	Time
Relinquished by:	1/17/07	1230	Received by:	1/17/07	1230
Relinquished by:	1/17/07	1400	Received by:	1/17/07	1400
Relinquished by:	1/17/07		Received by: DHL	1/17/07	
Relinquished by Commercial Carrier: UPS FedEx Other DHL			Received by:	1/18/07	0960
Temperature Upon Receipt 9 coolers 0.5° - 1.9° C°			Custody Seals Intact? Yes No		

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

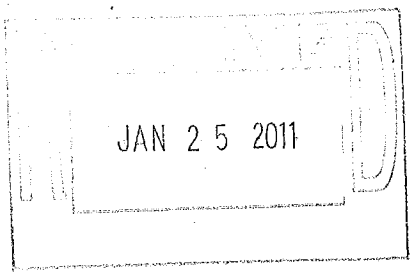
ATTACHMENT D

CITY OF PIEDMONT UTILITY MAP

DEPARTMENT OF PUBLIC WORKS
120 Vista Ave.
Piedmont, CA. 94611
(510) 420-3050

CITY OF PIEDMONT

TRANSMITTAL



To: NATHAN LEE (510-420-3314)
Conestoga – Rovers & Associates
5900 Hollis St. – Suite A
Emeryville, CA. 94608

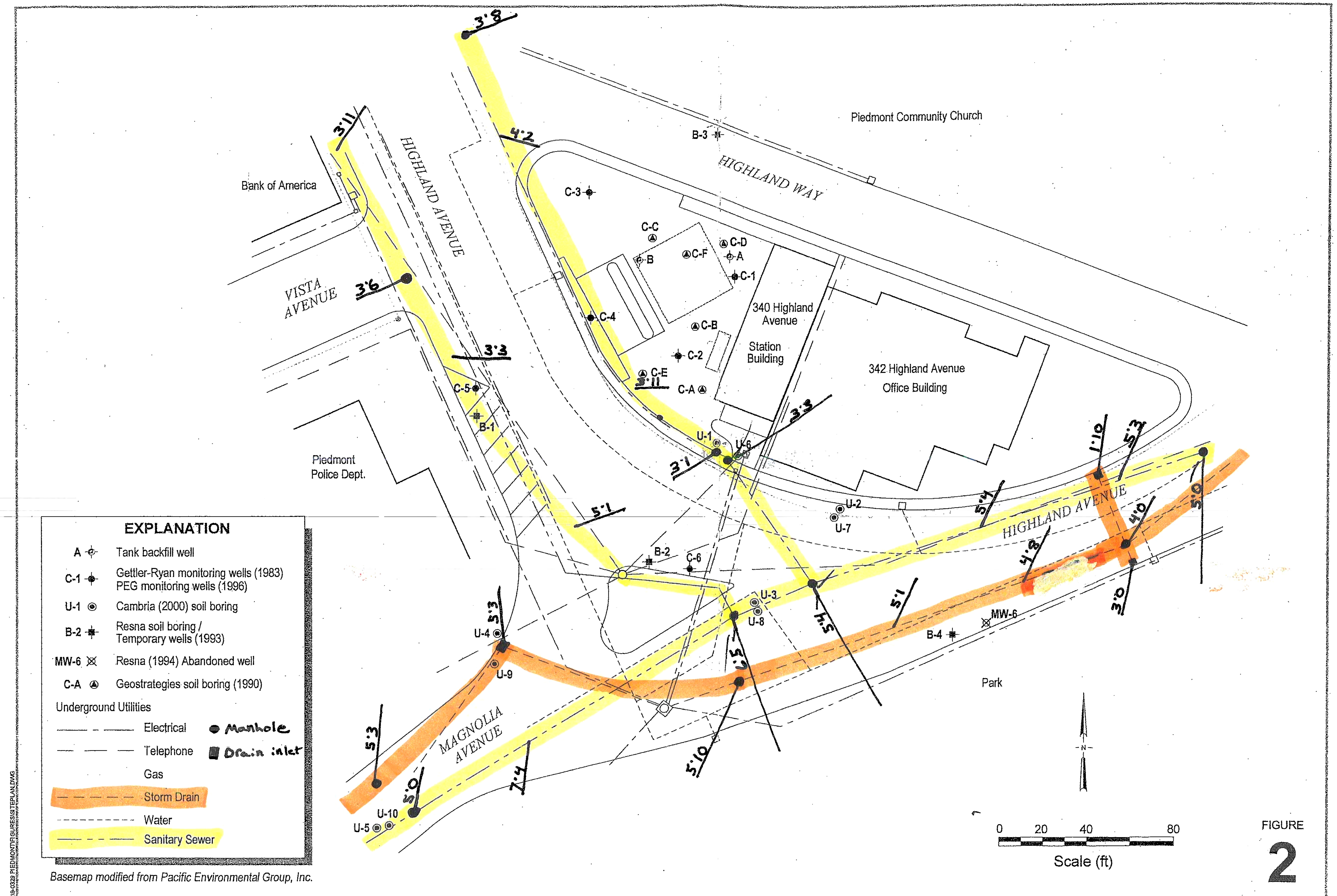
From: Chester G. Nakahara
Interim Director of Public Works CGN

CC:

Date: January 24, 2011

Re: 340 Highland Ave. – Piedmont, CA.

Schematic Site Plan submitted by Christine Orlowski, formerly of your office, annotated by our sewer maintenance staff indicating the depths of the storm and sewer system pipes in this vicinity. The depths are all relative to the elevation of the ground surface directly above the noted pipe depths, so a profile will require that you know the pavement elevation relative to a fixed datum. Please let me know if you have any questions regarding this matter.



02/03/04
Piedmont Community Church
HIGHLAND WAY
Bank of America
HIGHLAND AVENUE
VISTA AVENUE
340 Highland Avenue
Station Building
342 Highland Avenue
Office Building
Piedmont Police Dept.
HIGHLAND AVENUE
MAGNOLIA AVENUE
Park
B-3
C-3
C-C
C-D
A
B
C-F
C-1
C-4
C-B
C-2
C-E
C-A
C-5
B-1
U-1
U-6
U-2
U-7
B-2
C-6
U-3
U-8
U-4
U-9
MW-6
B-4
U-10
U-5
3'8
4'2
3'11
3'6
3'3
3'11
3'3
3'1
5'1
1'10
5'3
5'4
4'0
5'0
4'8
3'0
5'1
5'4
5'3
5'7
5'10
5'3
5'0
7'4
N
0
20
40
80
Scale (ft)
EXPLANATION
Tank backfill well
Gettler-Ryan monitoring wells (1983)
PEG monitoring wells (1996)
Cambria (2000) soil boring
Resna soil boring / Temporary wells (1993)
Resna (1994) Abandoned well
Geostrategies soil boring (1990)
Underground Utilities
Electrical
Manhole
Telephone
Drain inlet
Gas
Storm Drain
Water
Sanitary Sewer
Basemap modified from Pacific Environmental Group, Inc.

SEWER LINE DEPTHS

FIGURE

2

Former Chevron Station 9-0329
340 Highland Avenue
Piedmont, California

9 DEC 2010

Site Plan

NATHAN LEE 1-24-2011

~~Christine Orlowski~~

Conestoga-Rovers & Associates

CAMBRIA

5900 Hollis St
Suite A
Emeryville, CA
94608

510-420-3314

~~corlowski@craworld.com~~