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February 28, 2006

Mr. Jerry Wickham Department of Environmental Health Alameda County Health Agency 1131 Harbor Bay Parkway Alameda, California 94502

RE: SLIC Case No. RO0002892, Chevron Sunol Pipeline, 2793 Calaveras Road, Sunol, CA

Dear Mr. Wickham:

On behalf of the Chevron Pipe Line Company (CPL), URS Corporation (URS) has installed and operated a soil vapor extraction (SVE) system as an interim remedial measure for a gasoline pipeline release that occurred on August 14, 2005, in Sunol, California. This Interim Remediation Report discusses the release history, the design and operation of the SVE system, and the sampling results for the system. This report also evaluates the performance of the SVE system and presents recommendations.

This Report is intended to meet the requirements set forth in the comment letter dated December 30, 2005, from the Alameda County Department of Environmental Health to CPL. Specifically, this Report is intended to meet the requirement that an interim remediation report be submitted by March 2, 2006.

If you have any questions on the Report, please call me at 510-874-3201.

Sincerely yours,

URS CORPORATION

Joe Morgan III

Senior Project Manager



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Global Gas

J. C. (Jeff) Cosgray Sr Site Remediation Specialist Health Environmental & Safety
Chevron Pipe Line Company 4800 Fournace Place Bellaire, TX 77401-2324 Tel 713-432-3335
Fax 713-432-3477 jcos@chevron.com

March 1, 2006

VIA OVERNIGHT MAIL Waybill# 57926046846

Mr. Jerry Wickham Department of Environmental Health Alameda County Health Agency 1131 Harbor Bay Parkway Alameda, CA 94502

PERJURY STATEMENT - RELEASE AT SUNOL CA

Dear Mr. Wickham,

I declare, under penalty of perjury, that the information and/or recommendations contained in URS' report titled "Interim Remediation Report, Soil Vapor Extraction System for the Chevron Pipeline Release Location, Sunol, California" are true and correct to the best of my knowledge at the present time.

Sincerely

J. C. (Jeff) Cosgray

JC/wm

DISCLOSURE

This report ("Interim Remediation Report, Soil Vapor Extraction System for the Chevron Pipeline Release Location, Sunol, California") was prepared under my direct supervision. The information and results presented in this report are based on our review of available data obtained from numerous sources, including studies performed by others, laboratory data produced by independent laboratories, and data generated by URS. To the best of our knowledge we have collected and incorporated into our findings and recommendations all relevant data from previous groundwater and soil quality studies of the Benicia Refinery.

The study reported herein was performed in accordance with the standard of care used for this type of study. The assumptions that were made and the interpretation of the data were based on our experience and on protocols reported in the literature for similar studies.

URS Corporation
Approved by:

Hanchih Angela Liang, Ph.D., P.E.

INTERIM REMEDIATION REPORT SOIL VAPOR EXTRACTION SYSTEM FOR THE CHEVRON PIPE LINE RELEASE LOCATION SUNOL, CALIFORNIA

SLIC CASE NO. RO0002892

Prepared for:

Chevron Pipe Line Company 2811 Hayes Road Houston, Texas 77082

February 2006



URS Corporation 1333 Broadway, Suite 800 Oakland, California 94612

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TABLE OF CONTENTS

Executive S	ımmary	ES-1
Section 1	Introduction	1-1
Section 2	Background	2-1
		ase History2-1 t the Release Location2-2
Section 3	Interim Remedial Measure	3-1
	3.1.1 SVE Wells3.1.2 SVE Treatment Sys	
	3.2 Analysis Program	
Section 4	System Operation and Results	4-1
	4.1.1 Well SVE-1D 4.1.2 Well SVE-2S 4.1.3 Well SVE-3S 4.1.4 Well SVE-4D 4.1.5 Summary of the Pil 4.2 Three-Month Operation of 4.2.1 Well SVE-1D 4.2.2 Well SVE-2S 4.2.3 Well SVE-3S 4.2.4 Well SVE-4D 4.2.5 Summary of Result Operations)	em
Section 5	Conclusions and Pecommendation	s5-1
Section 6		6-1
Section 7	References	7-1

TABLE OF CONTENTS

Tables	
1	SVE Well Construction Details
2	Operation Parameters, Sampling Results, and Mass Removal Calculations for Well SVE-1D, Chevron Sunol Pipeline
3	Operation Parameters, Sampling Results, and Mass Removal Calculations for Well SVE-2S, Chevron Sunol Pipeline
4	Operation Parameters, Sampling Results, and Mass Removal Calculations for Well SVE-3S, Chevron Sunol Pipeline
5	Operation Parameters, Sampling Results, and Mass Removal Calculations for Well SVE-4D, Chevron Sunol Pipeline
Figures	
1	Site Vicinity Map
2	Site Map, Chevron Sunol Pipeline
3	SVE Well Locations, Chevron Sunol Pipeline
4	Hydrocarbon Concentrations at Wellheads, Chevron Sunol Pipeline
5	Cumulative Hydrocarbon Mass Removal at Wellheads, Chevron Sunol Pipeline
Appendices	
A	Alameda County Department of Environmental Health Comment Letter dated January 20, 2006
В	Boring Logs and Well Completion Reports for SVE Wells
C	BAAQMD Permit for the SVE System
D	Notification Letters to the BAAQMD
Е	Laboratory Analytical Reports

Acronyms and Abbreviations

below ground surface bgs

BTEX benzene, toluene, ethylbenzene, and total xylenes

cubic feet per minute cfm

Chevron Pipe Line Company **CPL**

F Fahrenheit

 g/m^3 grams per cubic meter

hp horsepower

photoionization detector PID

parts per million ppm

psia pounds per square inch atmosphere

PVC polyvinyl chloride

SFPUC San Francisco Public Utilities Commission

SVE soil vapor extraction

URS URS Corporation

U.S. Environmental Protection Agency **USEPA**

On behalf of the Chevron Pipe Line Company (CPL), URS Corporation (URS) has installed and operated a soil vapor extraction (SVE) system as an interim remedial measure for a gasoline pipeline release that occurred on August 14, 2005, in Sunol, California. This Interim Remediation Report discusses the release history at the release site, the design of the SVE system and the sampling and analysis program, and the operation of the SVE system and the sampling results for the system. This report also evaluates the performance of the SVE system and presents recommendations.

The SVE system was successfully operated from November 8, 2005, through February 13, 2006. A total of 7,286 pounds (approximately 1,041 gallons) of hydrocarbons were removed at the completion of the 3-month operational period. After reviewing the analytical results collected at each wellhead, URS recommends that CPL continue to operate the SVE system for an additional 2 months.

SECTIONONE Introduction

On behalf of the Chevron Pipe Line Company (CPL), URS Corporation (URS) has installed and operated a soil vapor extraction (SVE) system as an interim remedial measure for a gasoline pipeline release that occurred on August 14, 2005, in Sunol, California (Figure 1). This Interim Remediation Report (Report) discusses the release history at the release site (Section 2), the design of the SVE system and the sampling and analysis program (Section 3), the operation of the SVE system (operated from November 8, 2005, through February 13, 2006) and the sampling results for the system (Section 4). This report also evaluates the performance of the SVE system and presents recommendations (Section 5). Section 6 lists the references consulted in preparing this Report. This Report is intended to meet the requirements set forth in the comment letter dated December 30, 2005, from the Alameda County Department of Environmental Health to CPL (Appendix A). Specifically, this Report is intended to meet the requirement that an interim remediation report be submitted by March 2, 2006.

SECTIONTWO **Background**

This section describes the release location and release history as well as the subsurface investigation that URS conducted at the release location.

2.1 RELEASE LOCATION AND RELEASE HISTORY

A release of unleaded gasoline occurred on August 14, 2005, on the Bay Area Product Line, a pipeline owned by CPL, when a motor grader that was grading the dirt road parallel to Calaveras Road struck the pipeline. CPL estimated that approximately 700 barrels (29,400 gallons) of unleaded gasoline were released downgradient of the pipeline onto the adjacent hillside and Calaveras Road.

The location of the pipeline release is approximately 2.7 miles south of the intersection of Interstate 680 and Calaveras Road, between mileposts 2.7 and 2.8 of Calaveras Road, in Sunol Valley, Valle de San Jose Mexican land grant (La Costa Valley Quadrangle) in Alameda County, California. The release location is approximately 5 miles from the city of Sunol, California (Figure 1). The pipeline extends along Calaveras Road and traverses a steep hillside above the east side of the road (Figure 2). The San Francisco Public Utilities Commission (SFPUC) owns the property where the release occurred and leases it to a cattle rancher. Immediately to the west of Calaveras Road at the location of the release is a tree nursery (the Valley Crest Tree Company), which also leases the property from the SFPUC.

The release location is a steep, west-facing slope with a grade of 80 to 90 percent. Vegetation at the release location is predominantly oak woodlands. An unnamed creek is located approximately 150 to 200 feet north of and downhill from the release location. This creek flows into the Alameda Creek floodplain. URS and CPL observed no visible impacts to this creek immediately after the release. A surface water sample was collected on October 19, 2005, and confirmed these visual observations (Table 3 in URS 2005).

CPL conducted emergency remedial activities immediately after the release was identified. The pipeline rupture was repaired. The surface soils surrounding the release location were excavated, characterized, and disposed of off-site at an appropriate landfill according to CPL's spill response contractor. The repaired section of the pipeline was left open and exposed. The impacted portion of Calaveras Road was repaved.

SECTIONTWO **Background**

In response to Alameda County's request to evaluate the soil and groundwater impacts of the release, Chevron retained URS to conduct a four-phase subsurface investigation. The purpose of the subsurface investigation was to evaluate the lateral and vertical extent of gasoline-impacted soil and groundwater at the release location. URS advanced a total of 19 Geoprobe® borings, nine hand-augered borings, two hollow-stem auger borings, and four air-rotary auger borings to collect soil and groundwater samples. The sampling locations are shown on Figure 2. These field activities were conducted from August 25 to November 10, 2005. The investigation results were presented in Subsurface Investigation Report, Chevron Pipeline Release, Sunol, California, which was submitted to the Alameda County Department of Environmental Health on December 15, 2005 (URS 2005).

2.2 SUBSURFACE INVESTIGATION AT THE RELEASE LOCATION

The boring logs obtained from URS' fall 2005 subsurface investigation indicated that the local lithology on the hillside above Calaveras Road consists of sandy silt to silty sand colluvium that extends to depths ranging from approximately 3 to 32 feet below ground surface (bgs). The silty sand colluvium is underlain by gravelly fine sand and fine sandy gravel to total depths ranging from approximately 10 to 40 feet bgs. Beneath the sand and gravel layer (observed in the borings that reached the greatest depth below ground surface) a thin silty/clayey weathered zone was encountered just before refusal on what appeared to be the sandstone/siltstone bedrock. Sandstone bedrock overlain by a gravel bed is exposed in the dirt road cut below the pipeline release location (URS 2005).

No continuous water-bearing zone was encountered within the colluvial deposits on the hillside. However, perched groundwater zones were encountered on or near the dirt road on the hillside at depths ranging from 24 to 39 feet bgs in four of the borings (CP-SB-11, CP-SB-12, CP-SB-20, and CP-SB-25) (URS 2005).

For both the field photoionization detector (PID) results and the laboratory analytical results, the highest gasoline concentrations in soil were found in the hillside soils beneath the dirt road. Although the steep slope hindered a full exploration of the hillside with respect to soil sampling and reaching groundwater, the release area appears to extend down the hillside between the dirt road and Calaveras Road. As an interim remedial measure, URS installed an in situ SVE system to remediate the soils impacted by the gasoline release.

This section describes the interim remedial measure implemented at the release location.

3.1 SVE SYSTEM DESIGN

3.1.1 **SVE Wells**

URS installed four SVE wells (SVE-1D, SVE-2S, SVE-3S, and SVE-4D) and six piezometers (PZ-1 through PZ-6) on the dirt road in the area where the gasoline release occurred. Based on the logs of the borings advanced on the dirt road (CP-SB-11, CP-SB-12, CP-SB-20, and CP-SB-25), two deep wells (SVE-1D and SVE-4D) and two shallow wells (SVE-2S and SVE-3S) were installed along the dirt road on either side of the gasoline release, as shown on Figure 3. The well completion reports for the SVE wells are included in Appendix B. The well construction details for the four SVE wells and the six piezometers are presented in Table 1.

The four SVE wells were installed using a hollow-stem auger drill rig on November 5 and November 8, 2005. All wells were 4 inches in diameter and constructed with a Schedule 40 polyvinyl chloride (PVC) well casing and a 0.02-inch slot PVC screen. The specifics of each SVE well are as follows:

- Well SVE-1D
 - 20 feet total depth
 - 7 feet screen length
 - Screen interval from 12.6 to 19.6 feet bgs
 - Approximate distance from the release location: 35 feet
- Well SVE-2S
 - o 10.8 feet total depth

- 5 feet screen length
- Screen interval from 5.4 to 10.4 feet bgs
- o Approximate distance from the release location: 10 feet
- Well SVE-3S
 - 11 feet total depth
 - 5 feet screen length
 - Screen interval from 5.6 to 10.6 feet bgs
 - o Approximate distance from the release location: 12.5 feet
- Well SVE-4D
 - o 28 feet total depth
 - 10 feet screen length
 - Screen interval from 17.6 to 27.6 feet bgs
 - Approximate distance from the release location: 62.5 feet

SVE Treatment System 3.1.2

The SVE treatment system was provided by URS subcontractor Stratus, Inc. (Stratus). The system consists of the following components:

- A trailer-mounted 200-cubic-feet-per-minute (cfm) thermal oxidizer (manufactured by CBA Equipment, LLC) that includes a 15-horsepower (hp) liquid ring blower and a 100-gallon knockout pot
- A 49-hp-rated propane electrical generator
- Conveyance pipes and manifold
- A 1000-gallon propane tank

The SVE treatment system is located north of the release location on SFPUC property (Figure 3). The SFPUC property is fenced and has a locked gate for security. An 8-foot-high, slatted chainlink fence with a locked gate encloses the SVE equipment compound. Vapors were extracted from the four SVE wells with the liquid ring blower and conveyed to the treatment compound through 2-inch-diameter PVC Schedule 40 conveyance pipes attached to 1" Kanaflex® hose. The

hoses end at the treatment compound and connect to a 3-inch-diameter, stainless steel main manifold that is mounted on the SVE trailer. The extracted vapor stream is conveyed from the manifold to the knockout pot, which separates and collects moisture from the vapor stream. Hydrocarbon-impacted vapors are abated by the thermal oxidizer before discharge to the atmosphere.

A copy of the permit for the SVE system from the Bay Area Air Quality Management District (BAAQMD) is provided in Appendix C. The required notification letters to the BAAQMD are included in Appendix D.

3.2 ANALYSIS PROGRAM

Grab vapor samples were collected at each SVE wellhead and at the system influent point every other day during the 5-day pilot test and approximately every week during subsequent operation. All vapor samples collected for chemical analysis were transported under URS chain-of-custody to Lancaster Laboratories via FedEx. The vapor samples were analyzed for the following:

- Hydrocarbon concentrations as hexane by U.S Environmental Protection Agency (USEPA) Method 25 Modified
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by USEPA Method TO-14A Appendix E provides the complete laboratory analytical results.

This section describes the pilot test and the operation of the SVE system. The operational parameters, sampling results, and mass removal calculations for Wells SVE-1D to SVE-4D are presented in Tables 2 through 5, respectively. Appendix E provides the complete laboratory analytical results.

4.1 PILOT TEST OF THE SVE SYSTEM

After notifying the BAAQMD in writing on November 4, 2005, regarding the proposed 5-day pilot test of the SVE system, URS conducted the pilot test from November 8 through 12, 2005. Upon start-up, the system was verified to be in compliance with the requirements of the BAAQMD permit. During this visit and on subsequent visits, URS collected the field data. Air samples were collected on the day of start-up and then every other day after start-up. The analytical results of the pilot test are discussed below.

Well SVE-1D 4.1.1

SVE-1D is located on the dirt road approximately 35 feet downgradient of the release location. The hydrocarbon concentration as hexane in the air sample collected from SVE-1D was reported as 19,000 parts per million (ppm) on start-up (November 8, 2005). The hydrocarbon concentration as hexane in the air sample collected at the end of the pilot test (November 12, 2005) decreased to 3,100 ppm. Approximately 192 pounds of hydrocarbons were removed at this location during the 5-day pilot test.

4.1.2 Well SVE-2S

SVE-2S is located on the dirt road approximately 10 feet downgradient of the release location. The hydrocarbon concentration as hexane in the air sample collected from SVE-2S was reported as 3,300 ppm on start-up (November 8, 2005). The hydrocarbon concentration as hexane in the air sample collected at the end of the pilot test (November 12, 2005) decreased to 31 ppm. Approximately 15 pounds of hydrocarbons were removed at this location during the 5-day pilot test.

4.1.3 Well SVE-3S

SVE-3S is located on the dirt road approximately 12.5 feet upgradient of the release location. The hydrocarbon concentration as hexane in the air sample collected from SVE-3S was reported as 28,000 ppm on start-up (November 8, 2005). The hydrocarbon concentration as hexane in the air sample collected at the end of the pilot test (November 12, 2005) decreased to 3,000 ppm. Approximately 188 pounds of hydrocarbons were removed at this location during the 5-day pilot test.

Well SVE-4D 4.1.4

SVE-4D is located on the dirt road approximately 62.5 feet upgradient of the release location. This well was installed on November 8, 2005, the same day that the SVE system was started up. Vacuum was not applied to this well until November 10, 2005. The hydrocarbon concentration as hexane in the air sample collected from SVE-4D was reported as 1,700 ppm on start-up (November 10, 2005). The hydrocarbon concentration as hexane in the air sample collected at the end of the pilot test (November 12, 2005) increased to 4,900 ppm. Approximately 48 pounds of hydrocarbons were removed at this location during the pilot test.

Summary of the Pilot Test Results

A total of 443 pounds of hydrocarbons were removed at the completion of the pilot test. URS recommended that the SVE operation be continued for an additional 3 months.

4.2 THREE-MONTH OPERATION OF THE SVE SYSTEM

The SVE system was successfully operated from November 12, 2005, through February 13, 2006, after the completion of the pilot test. Stratus field technicians maintained the system twice a week, and air samples were taken at the wellheads approximately every week. The analytical results from the 3 months of operation are discussed below. Figure 4 shows the analytical results for the pilot test and the 3 months of operation. Figure 5 shows the cumulative mass of hydrocarbons removed from the wellheads during the pilot test and the 3 months of operation.

4.2.1 Well SVE-1D

The hydrocarbon concentration as hexane in the air samples collected from SVE-1D remained relatively stable in the first two months of operation. The hydrocarbon concentration as hexane in the air sample collected from SVE-1D was reported as 3,100 ppm on November 15, 2005. The hydrocarbon concentration as hexane in the air sample collected at the end of the 3 months of

operation was reported as 1,900 ppm. Approximately 2,484 pounds of hydrocarbons were removed at this location during the pilot test and the 3 months of operation.

4.2.2 Well SVE-2S

The hydrocarbon concentration as hexane in the air samples collected from SVE-2S dropped quickly after start-up. The vacuum was continued at this location because the system had stabilized and the vacuum served as dilution air for the system. The hydrocarbon concentration as hexane in the air sample collected from SVE-2S was reported as 26 ppm on November 15, 2005. The hydrocarbon concentration as hexane in the air sample collected at the end of the 3 months of operation was reported as 82 ppm. Approximately 76 pounds of hydrocarbons were removed at this location during the pilot test and the 3 months of operation.

4.2.3 Well SVE-3S

The hydrocarbon concentration as hexane in the air samples collected from SVE-3S remained relatively high during the three months of operation. The hydrocarbon concentration as hexane in the air sample collected from SVE-3S was reported as 7,800 ppm on November 15, 2005. The hydrocarbon concentration as hexane in the air sample collected at the end of the 3 months of operation was reported as 2,100 ppm. Approximately 3,198 pounds of hydrocarbons were removed at this location during the pilot test and the 3 months of operation.

4.2.4 Well SVE-4D

The hydrocarbon concentration as hexane in the air samples collected from SVE-4D remained relatively stable during the 3 months of operation except for a concentration reported as nondetect on November 29, 2005. The hydrocarbon concentration as hexane in the air sample collected from SVE-4D was reported as 5,600 ppm on November 15, 2005. The hydrocarbon concentration as hexane in the air sample collected at the end of the 3 months of operation was reported as 1,800 ppm. Approximately 1,528 pounds of hydrocarbons were removed at this location during the pilot test and the 3 months of operation.

4.2.5 Summary of Results (5-Day Pilot Test and 3 Months of Operations)

A total of 7,286 pounds (approximately 1,041 gallons) of hydrocarbons were removed from the SVE well locations during the 5-day pilot test and the 3 months of operation.

The water accumulated in the knock-out pot was stored in a 55-gallon drum. The water was sampled and characterized before off-site disposal in an appropriate water treatment facility.

4.3 MASS REMOVAL CALCULATIONS

The assumptions used in the mass removal calculations were as follows:

- The relative vapor density of gasoline is approximately 3.3 (unit less).
- The vapor density of pure, dry air is 1,200 grams per cubic meter (g/m³) at 68° Fahrenheit (F).

The vapor density of gasoline is therefore calculated as $3.3 \times 1,200 \text{ g/m}^3 = 3,960 \text{ g/m}^3$ at 68°F .

Air flow in standard cubic foot per minute (SCFM) at 14.7 pounds per square inch atmosphere (psia) and 68°F is converted from air flow in cubic feet per minute as follows:

$$SCFM(at\ 14.7psia\ and\ 68^{\circ}F) = CFM\ x([(Pg + Patm)/(Patm)]\ x\ [(68 + 460)/(Tact + 460)])$$

where

- Pg is the gauge pressure at the wellhead
- *Patm* is the atmospheric pressure
- *Tact* is the actual temperature
- 460 is the temperature conversion factor from Fahrenheit to Kelvin.

The mass removed in pounds is calculated as follows:

Pounds of Petroleum Hydrocarbons Removed = (flowrate in SCFM)*(average concentration in ppmv)*(60 min/hr)*(106.88 lbs/molecule)*(Operation Time in hr)/1000000/379

The SVE system was successfully operated from November 8, 2005, through February 13, 2006, including the 5-day pilot test. A total of 7,286 pounds (approximately 1,041 gallons) of hydrocarbons were removed during the pilot test and the 3 months of operations. After reviewing the analytical results collected at each wellhead, URS recommends that the SVE system be operated for an additional 2 months.

Three new groundwater monitoring wells were installed along Calaveras Road at the foot of the hillside on January 30 through February 6, 2006. The wells were developed on February 14 and 15, 2006. Groundwater samples were collected on February 21 and 22, 2006. Upon review of the analytical results, URS may recommend that one or more of these groundwater monitoring wells be connected to the SVE system.

The contract for Stratus ended on February 13, 2006. The SVE treatment system and the electrical generators were removed on that date. The fence, propane tank, and piping were left in place at URS' request to facilitate operation of the SVE system should one or more of the groundwater monitoring wells on Calaveras Road need to be connected to the SVE system.

SECTIONSIX Limitations

URS' investigation and subsequent operation of the SVE system were based on its experience at other contaminated sites and the operation of other SVE systems. URS has performed services in a manner consistent with that level of care and skill ordinarily exercised by members of the same profession currently practicing in the same locality under similar conditions. No expressed or implied representation or warranty is included or intended in our reports, except that our services were performed, within the limits prescribed by our client and with the customary thoroughness and competence of our profession.

No third party shall have the right to rely on the opinions URS has rendered in connection with the services discussed in this document without URS' written consent and the third party's agreement to be bound to the same conditions and limitations as our client.

URS. 2005. Subsurface Investigation Report, Chevron Pipeline Release, Sunol, California. URS Corporation, December 15, 2005.

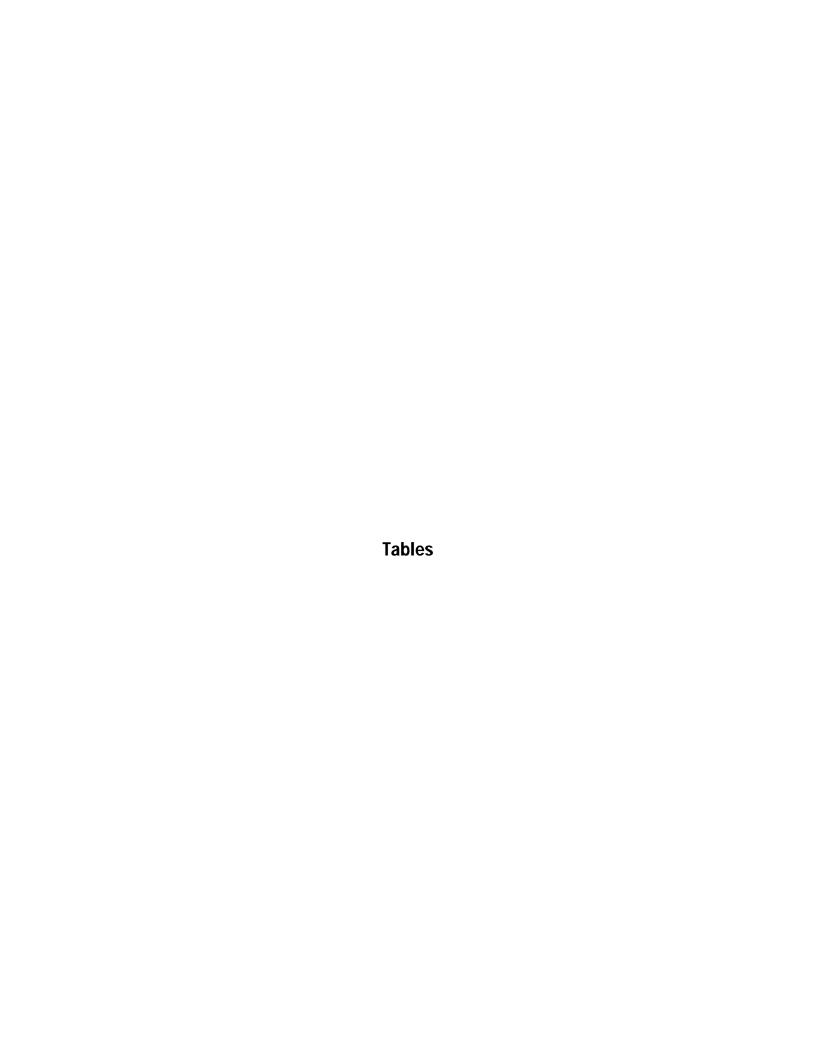


TABLE 1 SVE Well Construction Details Chevron Sunol Pipeline

Well ID	Date Completed	Easting	Northing		Top of Casing Elevation (feet msl)		Screen Bottom (feet bgs)	Comments
SVE-1D	11/5/2005	6168313.98	2025831.92	377.37	377.02	12.6	19.6	4" PVC
SVE-2S	11/5/2005	6168314.18	2025817.01	380.54	379.84	5.4	10.4	4" PVC
SVE-3S	11/5/2005	6168317.87	2025774.02	391.61	391.16	5.6	10.6	4" PVC
SVE-4D	11/8/2005	6168318.74	2025761.01	394.46	393.99	17.6	27.6	4" PVC
PZ-1	11/5/2005	6168297.94	2025880.84	366.23	367.29	4	5	1" PVC
PZ-2	11/5/2005	6168305.62	2025862.28	370.90	372.28	4	5	1" PVC
PZ-3	11/5/2005	6168308.44	2025847.15	373.69	374.73	4	5	1" PVC
PZ-4	11/5/2005	6168312.86	2025745.84	396.02	397.10	4	5	1" PVC
PZ-5	11/5/2005	6168316.00	2025730.65	397.73	398.96	4	5	1" PVC
PZ-6	11/5/2005	6168318.11	2025716.47	398.79	399.92	4	5	1" PVC

Notes:

- 1. Northing and Easting coordinates based on the California Coordinate System Zone 3 NAD83 Datum.
 2. All wells surveyed on February 14, 2006.

Table 2
Operation Parameters, Sampling Results, and Mass Removal Calculations for Well SVE-1D, Chevron Sunol Pipeline

Sample Date	Flowrate (fpm)	Temp (F)	Vacuum (inch water)	Flowrate (cfm)	Flowrate (scfm)	Total Operation Time (hr)	0	Mass Removal Rate (lbs/hr)	Mass Removed Since Last Sampling Event (lbs)	Cumulative Mass Removal (lbs)
11/08/05	678	65	3.33	14.79	14.75	2.0	19,000	4.86	9.72	9.72
11/10/05	621	62	3.15	13.55	13.60	45.9	7,300	3.10	136.05	145.77
11/12/05	526	58	3.04	11.48	11.61	89.9	3,100	1.05	46.04	191.81
11/15/05	1001	73	3.64	21.84	21.44	163.9	3,100	1.15	85.24	277.05
11/23/05	830	57	4.65	18.11	18.28	347.9	2,200	0.84	154.5	431.6
11/29/05	1750	65	9.86	38.18	37.47	489.1	2,800	1.62	229.2	660.8
12/06/05	510	48	3.6	11.13	11.46	586.1	3,000	0.58	55.9	716.7
12/13/05	1120	60	6.6	24.43	24.41	644.3	2,900	1.25	72.6	789.3
12/22/05	1305	65	7.53	28.47	28.10	792	4,100	1.70	251.8	1041.1
01/04/06	1184	62	7.54	25.83	25.64	1095.4	2,900	1.56	472.0	1513.1
01/11/06	1035	60	7.01	22.58	22.53	1259.4	2,700	1.09	179.3	1692.4
01/17/06	935	57	7.66	20.40	20.44	1399.3	2,700	0.96	133.8	1826.2
01/24/06	1045	58	6.35	22.80	22.88	1563.3	2,200	0.97	159.3	1985.5
02/01/06	1386	66	6.2	30.24	29.89	1754.2	2,700	1.27	242.3	2227.8
02/13/06	1060	60	6.31	23.13	23.12	2032.1	1,900	0.92	256.1	2483.9

1. Inlet pipe diameter is 2".

- 1. Relative vapor density of gasoline is approximately 3.3.
- 2. Vapor density of pure, dry air is 1,200 g/m3 at 20C.
- 3. Vapor density of gasoline is calculated to be 3,960 g/m3 at 20C.
- 4. SCFM(at 14.7psia and 68°F) = CFM $x([(Pg + Patm)/(Patm)] \times [(68 + 460)/(Tact + 460)])$
- 5. Mass Removed Since Last Sampling Event (lbs) = (flowrate scfm)*(avg. conc. ppmv)*(60 min/hr)*(106.88 lbs/molecule)*(Operation Time hr)/1000000/379

Table 3
Operation Parameters, Sampling Results, and Mass Removal Calculations for Well SVE-2S, Chevron Sunol Pipeline

						Total		Mass	Mass Removed	Cumulative
Sample						Operation	TPH-g	Removal	Since Last	Mass
Date	Flowrate	Temp	Vacuum	Flowrate	Flowrate	Time	Concentration	Rate	Sampling Event	Removal
	(fpm)	(F)	(inch water)	(cfm)	(scfm)	(hr)	(ppm)	(lbs/hr)	(lbs)	(lbs)
11/08/05	467	67	16.33	10.19	9.80	2.0	3,300	0.547	1.09	1.09
11/10/05	532	63	11.00	11.61	11.40	45.9	32	0.321	14.11	15.20
11/12/05	366	58	10.22	7.98	7.93	89.9	31	0.004	0.19	15.39
11/15/05	785	74	12.00	17.13	16.43	163.9	26	0.008	0.59	15.98
11/23/05	576	50	12.5	12.57	12.61	347.9	130	0.017	3.06	19.04
11/29/05	1702	61	27.2	37.13	35.12	489.1	17	0.044	6.17	25.20
12/06/05	521	45	9.85	11.37	11.60	586.1	390	0.040	3.87	29.08
12/13/05	864	57	16.8	18.85	18.46	644.3	19	0.064	3.72	32.79
12/22/05	1029	65	17.66	22.45	21.60	792	83	0.019	2.75	35.55
01/04/06	905	61	19.45	19.74	19.05	1095.4	100	0.029	8.95	44.50
01/11/06	793	59	18.77	17.30	16.79	1259.4	120	0.031	5.12	49.62
01/17/06	633	51	13.6	13.81	13.79	1399.3	180	0.035	4.90	54.52
01/24/06	621	55	20.4	13.55	13.19	1563.3	130	0.035	5.68	60.19
02/01/06	1034	65	20.4	22.56	21.55	1754.2	120	0.046	8.70	68.90
02/13/06	720	58	20.4	15.71	15.21	2032.1	82	0.026	7.22	76.12

1. Inlet pipe diameter is 2".

- 1. Relative vapor density of gasoline is approximately 3.3.
- 2. Vapor density of pure, dry air is 1,200 g/m3 at 20C.
- 3. Vapor density of gasoline is calculated to be 3,960 g/m3 at 20C.
- 4. SCFM(at 14.7psia and 68°F) = CFM $x([(Pg + Patm)/(Patm)] \times [(68 + 460)/(Tact + 460)])$
- 5. Mass Removed Since Last Sampling Event (lbs) = (flowrate scfm)*(avg. conc. ppmv)*(60 min/hr)*(106.88 lbs/molecule)*(Operation Time hr)/1000000/379

Table 4
Operation Parameters, Sampling Results, and Mass Removal Calculations for Well SVE-3S, Chevron Sunol Pipeline

						Total		Mass	Mass Removed	Cumulative
Sample						Operation	TPH-g	Removal	Since Last	Mass
Date	Flowrate	Temp	Vacuum	Flowrate	Flowrate	Time	Concentration	Rate	Sampling Event	Removal
	(fpm)	(F)	(inch water)	(cfm)	(scfm)	(hr)	(ppm)	(lbs/hr)	(lbs)	(lbs)
11/08/05	510	70	9.55	11.13	10.82	2.0	28,000	5.13	10.26	10.26
11/10/05	530	65	7.60	11.56	11.41	45.9	4,600	3.15	138.17	148.43
11/12/05	638	57	7.91	13.92	13.94	89.9	3,000	0.90	39.43	187.86
11/15/05	942	76	9.92	20.55	19.75	163.9	7,800	1.80	133.55	321.41
11/23/05	706	52	12.25	15.40	15.41	347.9	3,900	1.52	280.59	602.00
11/29/05	1230	62	34	26.83	24.88	489.1	4,400	1.75	246.65	848.65
12/06/05	626	43	13.6	13.66	13.86	586.1	1,900	0.74	71.64	920.29
12/13/05	750	54	16.09	16.36	16.14	644.3	5,500	1.01	58.82	979.11
12/22/05	1192	65	17.15	26.01	25.05	792	9,400	3.16	466.44	1445.55
01/04/06	796	57	20.4	17.37	16.85	1095.4	7,400	2.39	726.48	2172.03
01/11/06	783	58	20.4	17.08	16.54	1259.4	4,100	1.61	263.91	2435.94
01/17/06	626	50	20.4	13.66	13.43	1399.3	4,300	0.95	133.53	2569.47
01/24/06	672	49	20.4	14.66	14.45	1563.3	3,900	1.00	164.36	2733.83
02/01/06	900	61	20.4	19.63	18.90	1754.2	4,400	1.33	253.38	2987.20
02/13/06	647	54	20.4	14.12	13.77	2032.1	2,100	0.76	210.48	3197.69

1. Inlet pipe diameter is 2".

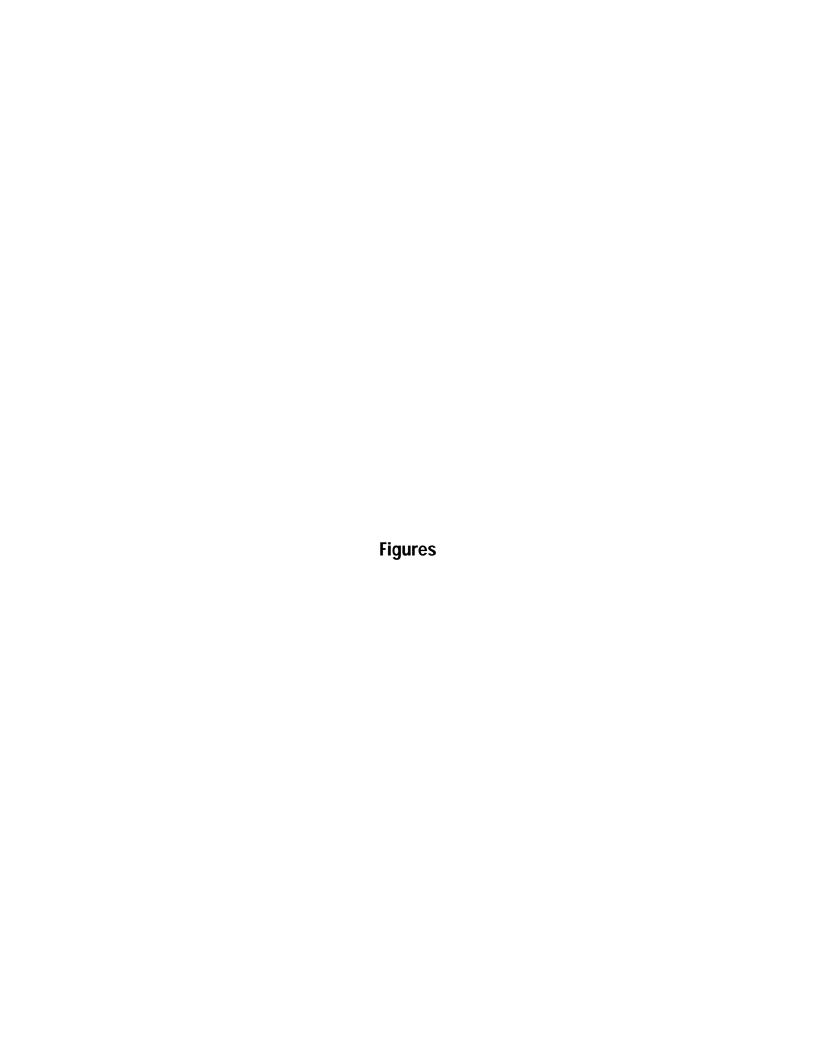
- 1. Relative vapor density of gasoline is approximately 3.3.
- 2. Vapor density of pure, dry air is 1,200 g/m3 at 20C.
- 3. Vapor density of gasoline is calculated to be 3,960 g/m3 at 20C.
- 4. SCFM(at 14.7psia and 68°F) = CFM $x([(Pg + Patm)/(Patm)] \times [(68 + 460)/(Tact + 460)])$
- 5. Mass Removed Since Last Sampling Event (lbs) = (flowrate scfm)*(avg. conc. ppmv)*(60 min/hr)*(106.88 lbs/molecule)*(Operation Time hr)/1000000/379

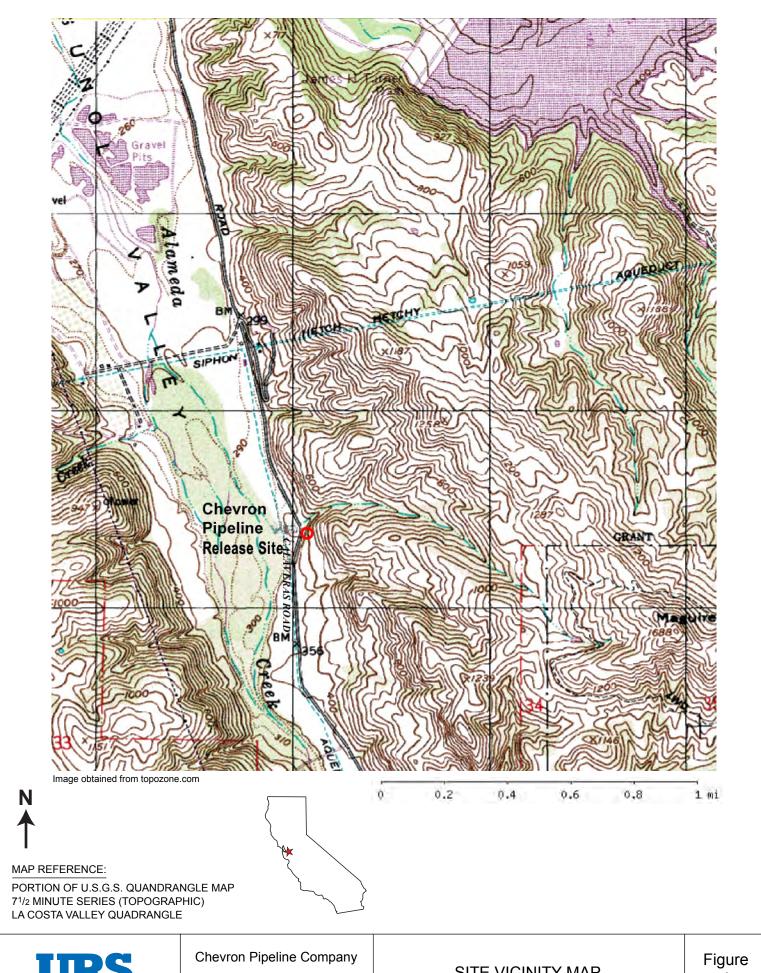
Table 5
Operation Parameters, Sampling Results, and Mass Removal Calculations for Well SVE-4D, Chevron Sunol Pipeline

Sample Date	Flowrate (fpm)	Temp (F)	Vacuum (inch water)	Flowrate (cfm)	Flowrate (scfm)	Total Operation Time (hr)	TPH-g Concentration (ppm)	Mass Removal Rate (lbs/hr)	Mass Removed Since Last Sampling Event (lbs)	Cumulative Mass Removal (lbs)
11/08/05							1,700		0	0
11/10/05	814	65	27.40	17.76	16.66	2.0	1,700	0.48	0.96	0.96
11/12/05	891	60	13.6	19.44	19.08	46	4,900	1.07	46.87	47.83
11/15/05	935	72	20.40	20.40	19.23	120	5,600	1.71	126.42	174.25
11/23/05	1388	49	40.80	30.28	28.26	304	1,500	1.70	312.39	486.63
11/29/05	2254	64	108.80	49.17	36.31	445.2	1	0.46	65.11	551.74
12/06/05	950	39	40.80	20.73	19.73	542.2	410	0.07	6.66	558.40
12/13/05	1232	56	40.80	26.88	24.75	600.4	3,200	0.76	43.99	602.38
12/22/05	1016	68	40.80	22.17	19.94	748.1	2,400	0.94	139.56	741.95
01/04/06	1195	60	27.20	26.07	24.70	1051.5	1,900	0.90	272.66	1014.61
01/11/06	1088	58	27.20	23.74	22.58	1355.4	1,500	0.65	197.37	1211.98
01/17/06	1035	52	27.20	22.58	21.73	1355.4	1,800	0.61	0.00	1211.98
01/24/06	742	52	27.20	16.19	15.58	1519.4	1,500	0.43	71.33	1283.31
02/01/06	1135	64	27.20	24.76	23.28	1710.3	1,800	0.65	124.10	1407.41
02/13/06	685	57	27.20	14.94	14.24	1988.2	1,800	0.43	120.55	1527.96

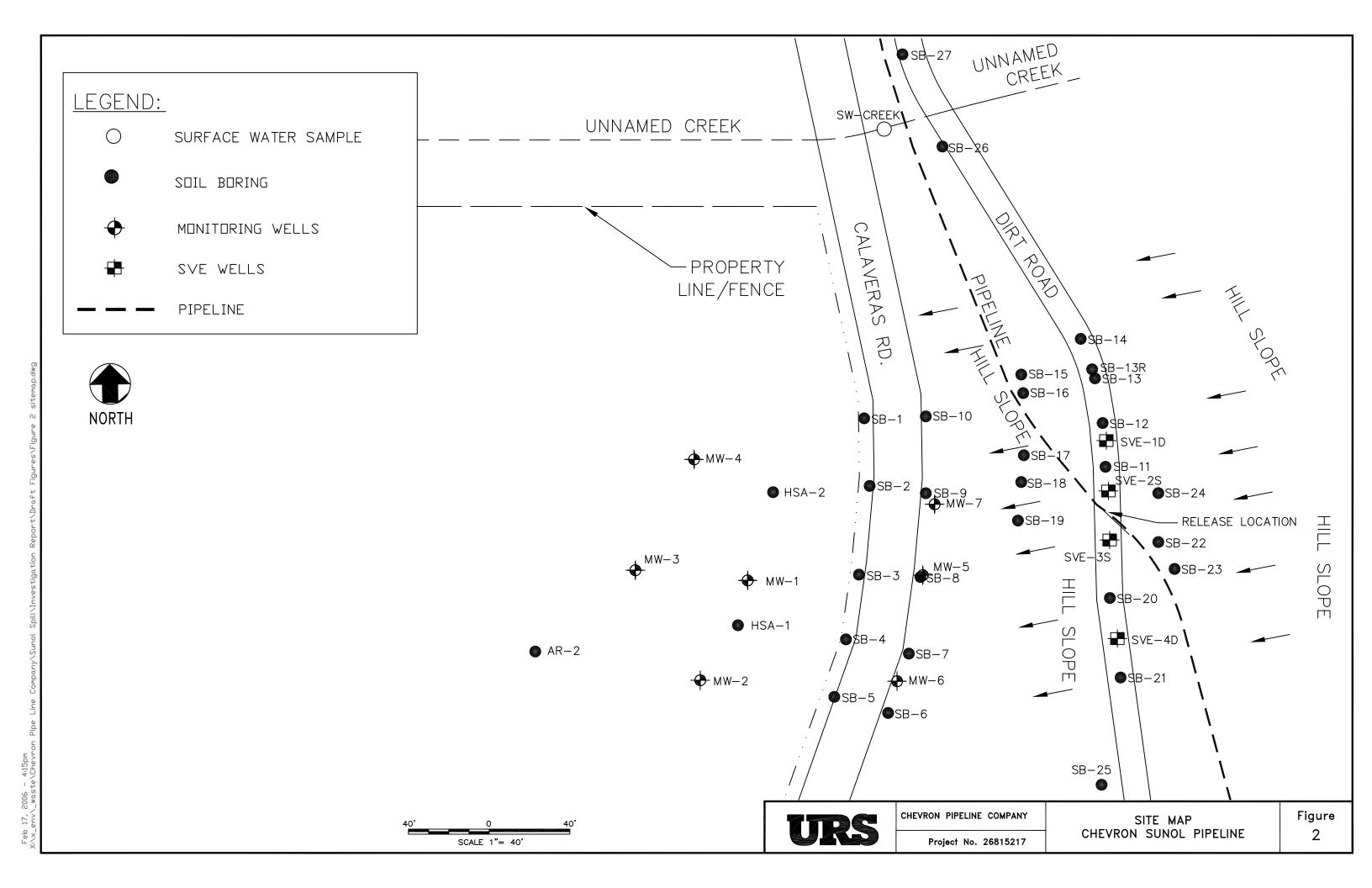
1. Inlet pipe diameter is 2".

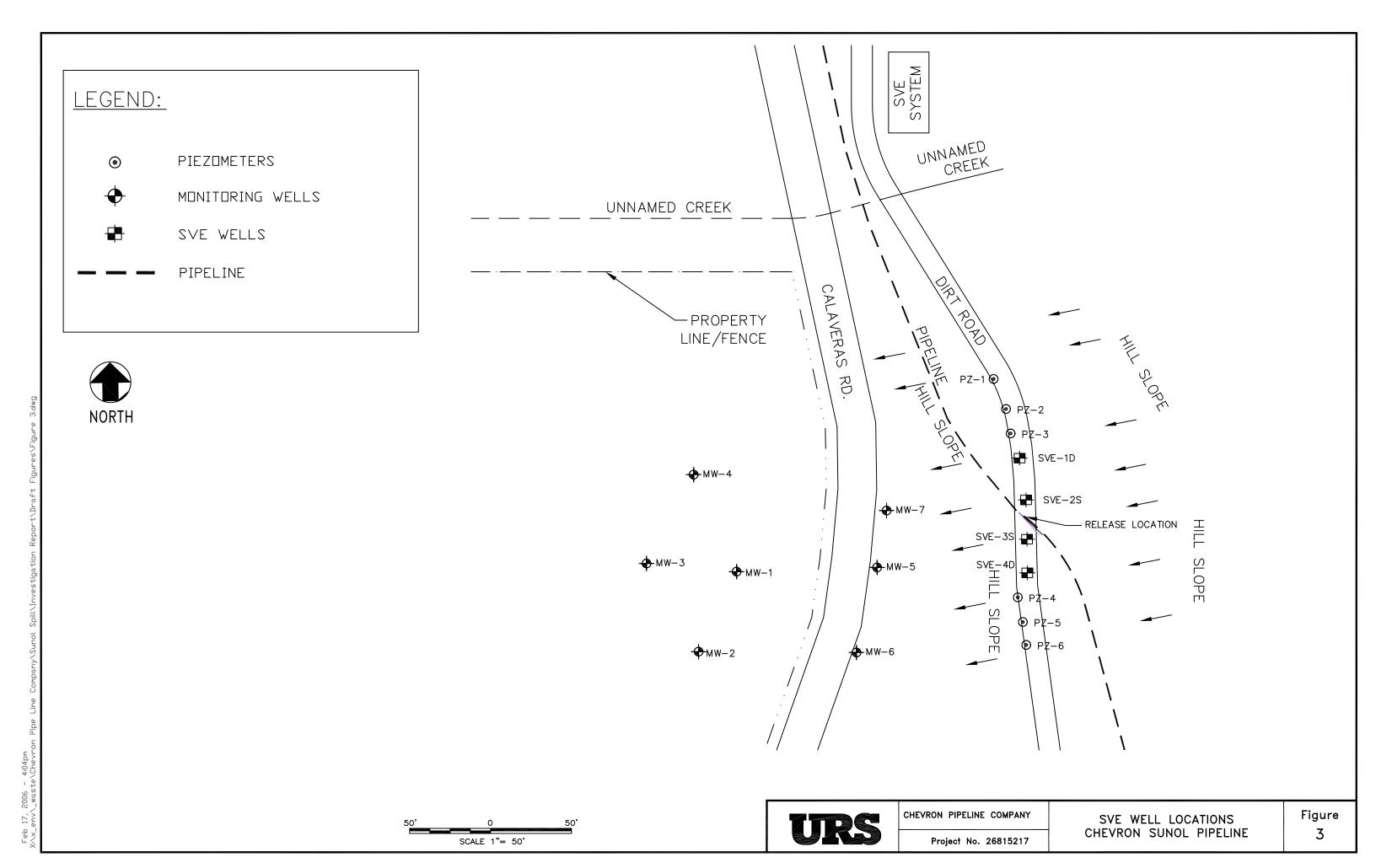
- 1. Relative vapor density of gasoline is approximately 3.3.
- 2. Vapor density of pure, dry air is 1,200 g/m3 at 20C.
- 3. Vapor density of gasoline is calculated to be 3,960 g/m3 at 20C.
- 4. SCFM(at 14.7psia and 68°F) = CFM $x([(Pg + Patm)/(Patm)] \times [(68 + 460)/(Tact + 460)])$
- 5. Mass Removed Since Last Sampling Event (lbs) = (flowrate scfm)*(avg. conc. ppmv)*(60 min/hr)*(106.88 lbs/molecule)*(Operation Time hr)/1000000/379

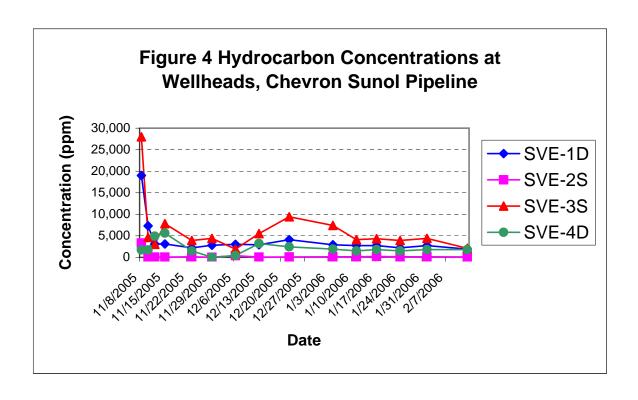


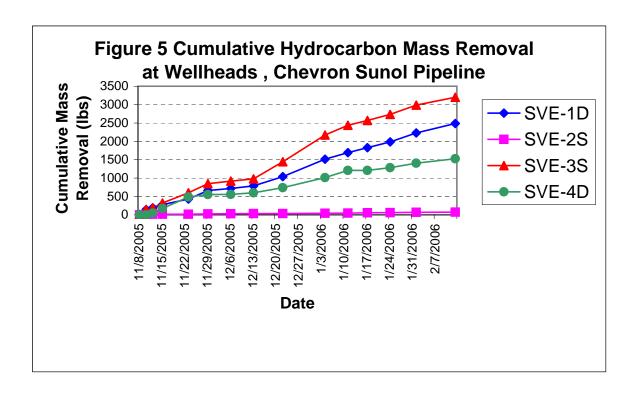












Appendix A
Alameda County Department of Environmental Health Comment Letter dated
January 20, 2006

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 20, 2006

Mr. Jeff Cosgray Chevron Pipe Line Company 2811 Hayes Road, Room 1366C Houston, TX 77082-6696

Subject: SLIC Case No. RO0002892, Chevron Sunol Pipeline, 2793 Calaveras Road, Sunol, CA – Work Plan Approval

Dear Mr. Cosgray:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above-referenced site and the document entitled, "Work Plan for Additional Investigation Activities, Chevron Sunol Pipeline Site, 2793 Calaveras Road, Sunol, California," dated January 19, 2006, prepared on your behalf by URS Corporation. The Work Plan proposes a scope of work that includes five additional soil borings/monitoring wells. ACEH has reviewed the Work Plan and concurs with the proposed scope of work.

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

TECHNICAL COMMENTS

 Cross Sections. The cross sections presented in the Subsurface Investigation Report dated December 15, 2005 were useful aids for the interpretation of site conditions. Please use data from the proposed additional borings to supplement or update the cross sections. Please present the cross sections in the Additional Subsurface Investigation Report requested below.

TECHNICAL REPORT REQUEST

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

- March 2, 2006 Interim Remediation Report
- April 15, 2006 Quarterly Monitoring Report for the First Quarter 2006
- May 20, 2006 Additional Subsurface Investigation Report

Jeff Cosgray January 20, 2006 Page 2

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

Effective January 31, 2006, 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).

In order to facilitate electronic correspondence, we request that you provide up to date electronic mail addresses for all responsible and interested parties. Please provide current electronic mail addresses and notify us of future changes to electronic mail addresses by sending an electronic mail message to me at jerry.wickham@acgov.org.

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,

Jeff Cosgray January 20, 2006 Page 3

and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

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

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Joe Morgan III, URS Corporation, 1333 Broadway, Suite 800, Oakland, CA 94612

Joe Naras, San Francisco Public Utilities Commission, Natural Resources Division, 1657 Rollins Road, Burlingame, CA 94010

Matt Katen, QIC 80201, Zone 7 Water Agency, 100 North Canyons Parkway, Livermore, CA 94551

Donna Drogos, ACEH Jerry Wickham, ACEH File Appendix B
Boring Logs and Well Completion Reports for SVE Wells

List of Boring Logs Included:

SVE-1D

SVE-2S

SVE-3S

SVE-4D

CP-SB-11

CP-SB-12

CP-SB-20

CP-SB-21



12

-14

-16

18

20

22

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1333 Broadway, Suite 800

LOG OF BORING

UE			1333 Broadway,		Dolellole ID: SVE-ID							
			Oakland, Californ	iia 9461	Total Depth: 20 ft bgs							
PROJECT INFORMATION						DRILLING INFORMATION						
Client: Chevr	ron Pi	peline			Drilling	Com	pany: G	regg Drill	ing & Testing			
Site Location:	Mile	ost 2.7	Calaveras Road, Sunol, Calif	ornia	Driller:	Chris	s S.					
Project Manag	ger: J	oe Morg	gan		Type o	f Drilli	ng Rig:	Marl M5	Γ			
RG: Leonard Nil	les				Drilling	Meth	od: Holl	ow Stem	Auger			
Geologist: Gre	egory	White			Sampli	ing M	ethod: B	lind Drilli	ng - No Sampling			
Job Number:	26815	5217.024	400		Date(s)) Drille	ed: Nove	mber 5, 20	004			
			ВС	DRING INF								
			bgs (during drilling)						eep hillside above	Calveras Road		
Air Knife or Ha			·				eter: 10 i					
Coordinates:	Х	61683	13.98 Y 2025831.92		Boring	Type:	Soil Vap	or Extract	ion			
Depth (ft bgs)	Symbol		Lithologic Descri	iption			nscs		Construction Details	Drilling Comments		
0		HAND	AUGER TO 5 FT BGS									
-2 -4 -6 -8 -10			DRILL WITH HSA RIG FROM .OG OF CP-SB-12 FOR LITHO		S.				1-12.6 ft bgs: 4" Sch. 40 PVC riser. 1.5-9.5 ft bgs: 95% cement / 5% bentonite grout. 9.5-11.5 ft bgs: Baroid bentonite chip seal.	10:30 Begin hand augering to 5 ft bgs. Ambient PID: 0.0 ppm 10:35 Begin drilling with augers at 5 ft bgs.		

END OF BORING AT 20 FT BGS

12.6-19.6 ft bgs: 4" Sch 40 PVC 0.020" screen.

11.5-20 ft bgs: #3 RMC sand.

19.6-20 ft bgs: 4" PVC silt trap and well cap.

11:10 Drilling becomes very difficult at 12 ft bgs-into gravel, sand, and cobble zone.

17 ft bgs: Water encountered during drilling.

12:20 End of boring at 20 ft bgs. Begin well installation.



-20

-22

1333 Broadway, Suite 800

LOG OF BORING

Borehole ID: SVE-2S

			_	טט	i enoie	טי טים	-20	
		Oakland, California 9461	2	Total Depth: 10.8 ft bgs				
Pi	ROJE	CT INFORMATION	DRILLING INFORMATION					
Client: Chev	ron Pip	peline	Drilling	Com	pany: G	regg Drilli	ng & Testing	
Site Location:	Milep	post 2.7 Calaveras Road, Sunol, California	Driller:	Chris	s S.			
Project Manag	ger: Jo	oe Morgan	Type of	Drilli	ing Rig:	Marl M57		
RG: Leonard Ni	iles		Drilling	Meth	nod: Holl	ow Stem A	Auger	
Geologist: Gr	egory '	White	Samplir	ng Mo	ethod: B	lind Drillii	ng - No Sampling	
Job Number:	26815				ed: Nove	mber 5, 20	004	
		BORING INF						
		1: Not Encountered					eep hillside above	Calveras Road
		uger Depth: 5 ft bgs	Boring D					
Coordinates:	Х	6168314.18 Y 2025817.01	Boring T	ype:	Soil Vap	or Extract	ion	
Depth (ft bgs)	Symbol	Lithologic Description			nscs		Construction Details	Drilling Comments
		HAND AUGER TO 5 FT BGS BLIND DRILL WITH HSA RIG FROM 5-10.8 FT BC (SEE LOG OF CP-SB-11 FOR LITHOLOGY)					1.0-5.4 ft bgs: 4" Sch. 40 PVC riser. 1.5-3.5 ft bgs: 95% cement / 5% bentonite grout. 3.5-4.5 ft bgs: Baroid bentonite chip seal. 5.4-10.4 ft bgs: 4" Sch 40 PVC 0.020" screen. 4.5-10.8 ft bgs: #3 RMC sand. 10.4-10.8 ft bgs: 4" PVC silt trap and well cap.	09:20 Begin hand augering to 5 ft bgs. Ambient PID: 0.0 ppm 09:35 Begin drilling with augers at 5 ft bgs. 09:50 End of boring at 10.8 ft bgs. Begin well installation.
—12 —14 —16 —18		END OF BORING AT 10.8 BGS	FI					



1333 Broadway, Suite 800 Oakland, California 94612

LOG OF BORING

Borehole ID: SVE-3S Total Depth: 11 ft bgs

Total Boptini 1111 ago					
PROJECT INFORMATION DRILLING INFORMATION					
Client: Chev	ron Pi	peline	Drilling Com	pany:	Gregg Drilling & Testing
Site Location: Milepost 2.7 Calaveras Road, Sunol, California Driller: Chris S.					
Project Manag	ger: J	loe Morgan	Type of Drill	ing Rig:	Marl M5T
RG: Leonard Ni	iles		Drilling Metl	hod: Hol	llow Stem Auger
Geologist: Gr	egory	White	Sampling M	ethod: B	Blind Drilling - No Sampling
Job Number:					ember 5, 2004
			FORMATION		
Groundwater	Depth	h: Not Encountered	Boring Loca	tion: Dirt	t road on steep hillside above Calveras Road
		Auger Depth: 5 ft bgs	Boring Diam		<u> </u>
Coordinates:		6168317.87 Y 2025774.02	Boring Type:		
			209 .) po	Bon vu	Por Extraction
Depth (ft bgs)	Symbol	Lithologic Description		SOSO	Well Construction Drilling Details Comments
 0		HAND AUGER TO 5 FT BGS		<u>'</u>	1 0-5 6 ft bas:
		BLIND DRILL WITH HSA RIG FROM 5-11 FT BC (SEE LOG OF CP-SB-20 FOR LITHOLOGY)			1.0-5.6 ft bgs: 4" Sch. 40 PVC riser. 1.5-3.0 ft bgs: 95% cement / 5% bentonite grout. 3.0-4.3 ft bgs: Baroid bentonite chip seal. 5.6-10.6 ft bgs: 4" Sch 40 PVC 0.020" screen. 4.3-11 ft bgs: #3 RMC sand. 10.6-11.0 ft bgs: 4" PVC silt trap and well cap. 15:00 Begin hand augering to 5 ft bgs. Ambient PID: 2.6 ppm 15:45 Begin drilling with augers at 5 ft bgs.
12 14 16 18 20 		END OF BORING AT 11.	UFI		

Borehole ID: SVE-3S Page 1 of 1



-24

26

1333 Broadway, Suite 800

LOG OF BORING

Borehole ID: SVE-4D

Oakland, California 94612 Total Denth: 28 ft bgs						
	Oakiana, Camornia 9401	Total Depth: 28 ft bgs				
	PROJECT INFORMATION DRILLING INFORMATION					
Client: Chevron Pipeli				Gregg Drilling & Testing		
	t 2.7 Calaveras Road, Sunol, California	Driller:				
Project Manager: Joe 1	Morgan		Drilling Rig:			
RG: Leonard Niles				low Stem Auger		
Geologist: Gregory Wh				Blind Drilling - No Sampling		
Job Number: 26815217			Drilled: Nov	ember 8, 2004		
	BORING INF					
Groundwater Depth:				road on steep hillside above	e Calveras Road	
Air Knife or Hand Auge			Diameter: 10			
Coordinates: X 61	168318.74 Y 2025761.01	Boring	ype: Soil Va	por Extraction		
Depth (ft bgs)	Lithologic Description		nscs	Well Construction Details	Drilling Comments	
- 2 - 4	AND AUGER TO 5 FT BGS LIND DRILL WITH HSA RIG FROM 5-28 FT BGS SEE LOG OF CP-SB-21 FOR LITHOLOGY)	S.		1.0-17.6 ft bgs: 4" Sch. 40 PVC riser. 1.4-15.0 ft bgs: 95% cement / 5% bentonite grout. 15.0-16.0 ft bgs: Baroid bentonite chip seal. 17.6-27.6 ft bgs: 4" Sch 40 PVC 0.020" screen.	09:25 Begin drilling with augers at 5 ft bgs. 10:00 Drilling becomes very	

END OF BORING AT 28 FT BGS

Page 1 of 1 **Borehole ID: SVE-4D**

16.0-28.0 ft bgs: #3 RMC sand.

27.6-28.0 ft bgs: 4" PVC silt trap and well cap.

10:25 End of boring at 28 ft bgs.
Begin well installation.



LOG OF BORING

Borehole ID: CP-SB-11

Total Depth: 22.5 feet bgs

PROJECT INFORMATION	DRILLING INFORMATION
Project: Chevron Pipeline	Drilling Company: Resonant Sonic
Site Location: Calaveras Rd., Sunol, CA	Driller: Juan
Project Manager: Joe Morgan	Type of Drilling Rig: Power Probe 9630 Pro-D
RG: Leonard Niles	Drilling Method: Hand Auger and Direct Push
Geologist: Greg White	Sampling Method: 6" brass sleeve/4' acetate sleeve
Job Number: 26815217.00300	Date(s) Drilled: 10/11/05
BORING IN	FORMATION
Groundwater Depth: Not Encountered	Boring Location: Dirt road on steep hillside
Air Knife or Hand Auger Depth: 5.0 feet	Boring Diameter: 2"
Coordinates: X Y	Boring Type: Soil

<u> </u>	_						
Depth (ft bgs)	Symbol	Lithologic Description	NSCS	PID (ppm)	Sample ID	Recovery	Comments
2		SILTY SAND: Brown, dry, loose, silty fine sand with some fine gravel and roots.	SM		10:00 CP-SB- 11 @ 0.5 - 1 10:05 CP-SB-		Hand auger from 0 - 5'
4				0.0	11 @ 1 - 1.5 10:10 CP-SB- 11 @ 2.5 - 3 10:30 CP-SB-		Begin direct push drilling at 5'
10					11 @ 5.5 - 6 10:42 CP-SB- 11 @ 10-10.5		Driller switched from dual tube to macro sleeve due to poor recovery
		SANDY SILT: Brown, moist, loose fine sandy silt with fine gravel.	ML	0.0	10-10.3		Drilling resumes
14		SAND: Light brown, dry, loose, very fine sand with a slight odor.	SP	21			at 12' bgs
F I	$\left\langle \right\rangle$	GRAVELLY SAND: Light brown, dry to wet (at 20 ft), loose, fine to coarse gravelly fine sand, some rock fragments.	SP/ GP		11:05 CP-SB- 11 @ 15.5 -		
-	^			705	16		
- 20 - 22		SAND: Gray, moist, very dense, fine sand.	SP	0.0	11:16 CP-SB- 11 @ 19.5 - 20		Refusal at 22.5' bgs. Install 3/4" PVC to see if any groundwater will enter borehole.

Page 1 of 1 Borehole ID: CP-SB-11



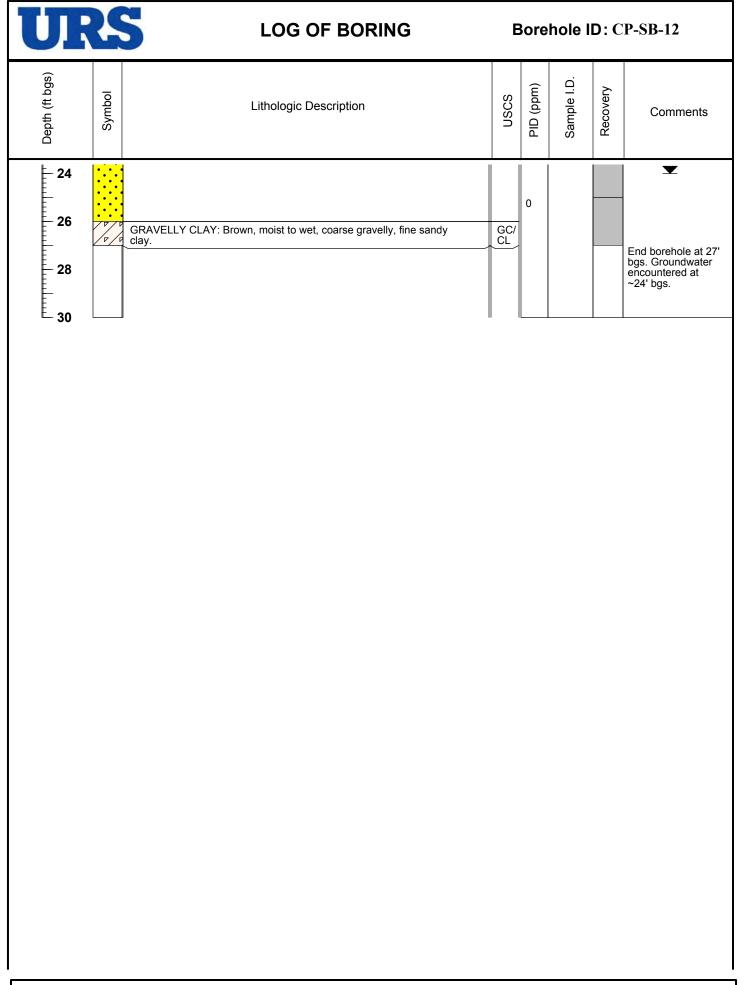
LOG OF BORING

Borehole ID: CP-SB-12
Total Depth: 27 feet bgs

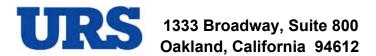
PROJECT INFORMATION	DRILLING INFORMATION
Project: Chevron Pipeline	Drilling Company: Resonant Sonic
Site Location: Calaveras Rd., Sunol, CA	Driller: Juan
Project Manager: Joe Morgan	Type of Drilling Rig: Power Probe 9630 Pro-D
RG: Leonard Niles	Drilling Method: Direct push/hand auger
Geologist: Greg White	Sampling Method: 6" brass sleeve/4' acetate sleeve
Job Number: 26815217.00300	Date(s) Drilled: 10/11/05
BORING IN	FORMATION
Groundwater Depth: 24 feet bgs during drilling	Boring Location: Dirt road on steep hillside
Air Knife or Hand Auger Depth: 5.0 feet	Boring Diameter: 2"
Coordinates: X Y	Boring Type: Soil

Coordinates:	Х	Y Boring Type: Soil					
Depth (ft bgs)	Symbol	Lithologic Description	nscs	PID (ppm)	Sample ID	Recovery	Comments
2 		SILTY SAND: Brown, dry, loose, silty fine sand with some fine gravel and roots.	SM	0	13:50 CP-SB- 12 @ 0.5 - 1 13:57 CP-SB- 12 @ 1 - 1.5 14:00 CP-SB- 12 @ 2 - 2.5 14:25 CP-SB- 12 @ 5 - 5.5		Hand auger from 0 - 5' Begin advancing borings with Geoprobe at 5'
10 - 12		SILTY SAND: Light brown, moist, loose, silty very fine sand with some medium gravel. GRAVELLY SAND: Light brown, moist, loose, fine to coarse gravelly.	SM GP/		14:30 CP-SB- 12 @ 10 - 10.5		
14		GRAVELLY SAND: Light brown, moist, loose, fine to coarse gravelly fine to medium sand that contains rock fragments. Gravel and rock fragments are increasing with depth.	SP	3.0	14:38 CP-SB-		
16		SAND: Light brown to gray, moist, dense, medium sand with trace amounts of gravel and some iron staining. same as above	SP	0	12 @ 15 - 15.5		
20 22				5.4	16:05 CP-SB- 12 @ 19.5 - 20		Only able to recover 2' samples at a time due to sluff in borehole after removing micro sampler.

Page 1 of 2 Borehole ID: CP-SB-12



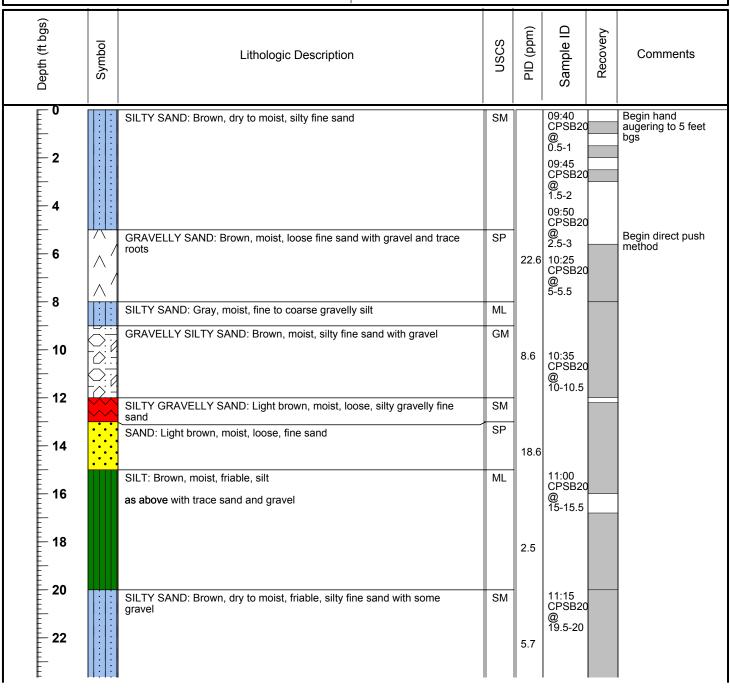
Page 2 of 2 Borehole ID: CP-SB-12



LOG OF BORING

Borehole ID: CP-SB-20
Total Depth: 39 feet bgs

PROJECT INFORMATION	DRILLING INFORMATION
Project: Chevron Pipeline	Drilling Company: Resonant Sonic
Site Location: Calaveras Rd., Sunol, CA	Driller: Jose
Project Manager: Joe Morgan	Type of Drilling Rig: Geoprobe 6620 DT
RG: Leonard Niles	Drilling Method: Hand auger and direct push
Geologist: Greg White	Sampling Method: 6" brass tube and 4" acetate sleeve
Job Number: 26815217.00300	Date(s) Drilled: 10/17/05
BORING IN	FORMATION
Groundwater Depth: 36' during driilling, 34.6' static	Boring Location: dirt road
Air Knife or Hand Auger Depth: 5.0 feet	Boring Diameter: 2"
Coordinates: X Y	Boring Type: Soil



Page 1 of 2 Borehole ID: CP-SB-20

UF		LOG OF BORING	E	Bore	hole I	D: (CP-SB-20
Depth (ft bgs)	Symbol	Lithologic Description	nscs	PID (ppm)	Sample I.D.	Recovery	Comments
24 - 26 - 28 - 30 - 32 - 34 - 36 - 38 - 40 - 42 - 44 - 44		SANDY SILT: Brown with some yellow mottling, moist, very stiff, fine sandy silt with some calcite veins GRAVELLY SANDY SILT: Brownish gray, moist, very stiff, gravelly fine sandy silt SAND: Light brown, moist, fine sand GRAVELLY SAND: Light brown, moist, gravelly fine sand SANDY GRAVEL: Brown, moist, sandy gravel with cobbles GRAVELLY SILT: Brown and gray with some red staining, wet, stiff, gravelly silt SILT: Gray, moist, very hard silt	ML GM/ML SP GP/SP SP/GP GM/ML	1236	12:15 CPSB20 @ 30-30.5		Sample is wet at 36' bgs. No standing water in borehole. Will try to advance borehole in order to get a good groundwater sample. End of boring because groundwater was encountered. Set 3/4" PVC pipe well and take groundwater level with a WL meter. Groundwater level is 34.6' bgs.
		Dogo 2 of 2				<u></u>	CD CD 20

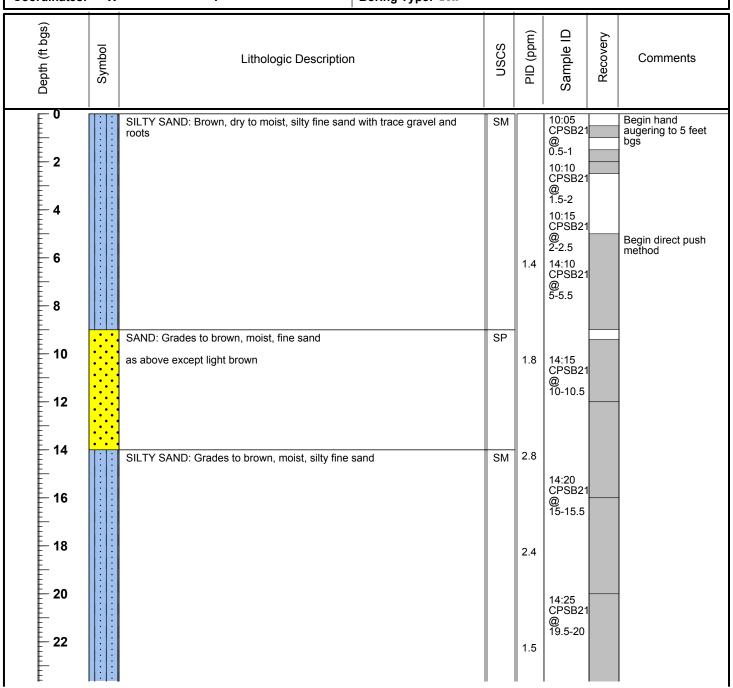
Page 2 of 2 Borehole ID: CP-SB-20



LOG OF BORING

Borehole ID: CP-SB-21
Total Depth: 39 feet bgs

PROJECT INFORMATION	DRILLING INFORMATION
Project: Chevron Pipeline	Drilling Company: Resonant Sonic
Site Location: Calaveras Rd., Sunol, CA	Driller: Jose
Project Manager: Joe Morgan	Type of Drilling Rig: Geoprobe 6620 DT
PG: Barbara Jakub	Drilling Method: Hand auger and direct push
Geologist: Greg White	Sampling Method: 6" brass tube and acetate sleeve
Job Number: 26815217.00300	Date(s) Drilled: 10/17/05
BORING IN	FORMATION
Groundwater Depth: Not Encountered	Boring Location: Dirt road on steep hillside
Air Knife or Hand Auger Depth: 5.0 feet	Boring Diameter: 2"
Coordinates: X Y	Boring Type: Soil



Borehole ID: CP-SB-21

UR	S	LOG OF BORING	Borehole ID: CP-SB-21					
Depth (ft bgs)	Symbol	Lithologic Description	nscs	PID (ppm)	Sample I.D.	Recovery	Comments	
24 		SANDY SILT: Brown, moist, very stiff to hard, fine sandy silt SILTY SAND: Brown, moist, medium dense, silty fine sand as above except, light brown, medium stiff, with gravel GRAVELLY SAND: Gray and brown, moist, fine to coarse gravelly sand, some cobbles	ML SM	6.1	14:30 CPSB21 @ 25-25.5 15:15 CPSB21 @ 38-38.5		Refusal on rock at 39' bgs. Insert 3/4" PVC well to see if groundwater enters the borehole.	

Appendix C
BAAQMD Permit for the SVE System



BAY AREA AIRQUALITY

MANAGEMENT

DISTRICT



ALAMEDA COUNTY Roberta Cooper Scott Haggerty Nate Miley Shelia Young

GONTRA GOSTA COUNTY
Mark DeSaulnier
Erling Horn
Mark Ross
'aecretary)

> B. Uilkema
So Chaltgerson

MARIN COUNTY Harold C. Brown, Jr.

NAPA COUNTY Brad Wagenknecht

SAN FRANCISCO COUNTY Chris Daly Jake Mc Goldrick Gavín Newsom

SAM MATEO COUNTY
Jerry Hill
Marland Townsend
(Chairparton)

SANTA GLARA COUNTY Erin Garner. Liz Knişs Patrick Kwok Julia Miller

SOLANO COUNTY John F. Silva

SONOMA COUNTY
Tim Smith
Pamela Torliatt

Jack P, Broadbent xecutive Officer/APCO



AUG 2 4 2005

August 16, 2005

CBA Equipment, LLC 24988 Blue Ravine, Ste 108 181 Folsom, Ca 95630

5306766005

Attention: Gowri S. Kowtha

Application Number: Plant Number:

Equipment Location:

12773 17101

same as above

Dear Applicant:

Enclosed is your Permit to Operate the following:

S-1 Portable SVE System

All Permits should be posted in a clearly visible and accessible place on or near the equipment to be operated, or kept available for inspection at any time. Operation of this equipment in violation of District Regulations or any permit conditions is subject to penalty action.

In the absence of specific permit conditions to the contrary, the throughputs, fuel and material consumption, capacities, and hours of operation described in your permit application will be considered maximum allowable limits. A new permit will be required before any increase in these parameters, or change in raw material handled may be made.

Please include your permit number with any correspondence with the District. If you have any questions on this matter please call Robert E Cave, Air Quality Engineer II at (415) 749-5048.

Very truly yours.

Jack P. Broadbent Executive Officer/APCO

by

Engineering Division

SBL:REC Enclosure



Bay Area Air Quality

PERMIT TO OPERATE

PLANT No. 17101

SOURCE No. 1

MANAGEMENT

DISTRICT

SINCE 1955

CBA Equipment, LLC

IS HEREBY GRANTED A PERMIT TO OPERATE THE FOLLOWING EQUIPMENT

Portable SVE System CHEM> Contaminated soil remediation, Contaminated soil vapor

LOCATED AT:	24988 Blue Ravine, Ste 108 181
	Folsom, Ca 95630
bject to attached co	ndition no. c22399 ¹

Su

JACK P. BROADBENT EXECUTIVE OFFICER/APCO

Permit Issue Date August 16, 2005 Reported Start Up Date August 15, 2005 Permit Expiration Date August 15, 2006

Sott Fut

Right of Entry

The Air Pollution Control Officer of the Bay Area Air Quality Management District, the Chairman of the California Air Resources Board, the Regional Administrator of the Environmental Protection Agency, and/or their designees, upon presentation of credentials, shall be granted the right of entry to any premises on which an air pollution source is located for the purposes of : i) the inspection of the source ii) the sampling of materials used at the source iii) the conduction of an emissions source test iv) the inspection of any records required by District rule or permit

Permit Expiration

In accordance with Regulation 3-408, a Permit to Operate is valid for 12 months from the date of issuance or other time period as approved by the APCO. Use of this Permit to Operate is authorized by the District until the later of: the Permit Expiration Date or the Permit Renewal Date, Permit to operate fees will be prorated as described in Regulation 3-402 when the permit is renewed.

This permit does not authorize violation of the rules and regulations of the BAAQMD or the Health and Safety Code of the State of California. District regulations may be viewed on line at www.hsaqmd.gov. This permit is not transferable to another person without approval from the District. It is the responsibility of the permit holder to have knowledge of and be in compliance with all District Rules and Regulations. 1. Compliance with conditions contained in this permit does not mean that the permit holder is currently in compliance with Diffrict Rules and Regulations.

Permit Holder Must Sign Here

Sparing the Alien



BAY AREA AIR QUALITY MANAGEMENT DISTRICT



COND# 22399

5306766005

- 1. The operator of this source shall provide written notification to the Engineering Division at least 3 days prior to start-up of operation at any new location. The notification shall include:
 - a. Application Number (12773) and Plant Number (17101).
 - b. Street address, including zip code, for the location where the equipment will be operated.
 - c. The name and telephone number of a contact person where the equipment will be operated.
 - d. The date of initial start-up and estimated duration of operations at that location.
 - e. The distance from the source to the outer boundary of the nearest K-12 school, or indication that the distance is greater than 1500 feet.

In the event that the start-up is delayed less than 5 days, the operator may provide telephone notice of said change to the assigned Plant Engineer in the Engineering Division. If the start-up is delayed more than 5 days, written notification must be resubmitted.

- 2. This equipment shall not remain at any single location for a period in excess of 12 consecutive months, following the date of initial operation except as allowed under Section 2-1-220.10. If this portable equipment remains at any fixed location for more than 12 months, the portable permit will automatically revert to a conventional permanent location permit and will lose its portability. [basis: Reg. 2-1-220.2]
- 3. This portable equipment, S-1, shall operate at all times in conformance with the eligibility requirements set forth in Regulation 2-1-220 for portable equipment.
- 4. This equipment is not to be operated within 1000 feet of the outer boundary of any K-12 school, unless the applicable requirements of the California Health and Safety Code Section 42301.6 have been met. This will require the submittal of an application for a revised permit to operate. [basis: Reg. 2-1-220.4]
- 5. This equipment shall be used exclusively for the removal of non-chlorinated volatile organic compounds associated with petroleum products from extracted soil vapor. This shall be demonstrated by onsite sampling required in condition 10 below. [basis: Health Risk



BAY AREA AIR QUALITY. MANAGEMENT DISTRICT



Management Policy]

- 6, Precursor Organic Compound (POC) emissions from Source \$-1 shall be abated by abatement device A-1, dual-mode thermal/catalytic oxidizer during all periods of operation. Soil vapor flow rate shall not exceed 200 scfm. [basis: Reg. 8-47-301.1,2]
- 7. The POC abatement efficiency of abatement device A-1 shall be maintained at a minimum of 98.5% by weight for inlet POC concentrations greater than or equal to 2000 ppmv (measured as C6). For inlet concentrations below 2000 ppmv and greater than or equal to 200 ppmv, a minimum abatement efficiency of 97% shall be maintained. For inlet concentrations below 200 ppmv, a minimum abatement efficiency of 90% shall be maintained. The minimum abatement efficiency shall be waived if outlet POC concentrations are shown to be less than 10 ppmv (measured as C6). In no event shall benzene emissions to the atmosphere exceed 0.250 pounds per day. Annual emissions of benzene shall not exceed 6.70 pounds par year. [basis: BACT; Health Risk Management Policy]
- 8. While operating as a Thermal Oxidizer, the minimum operating temperature of A-1 shall not be less than 1400 degrees Fahrenheit. While operating as a Catalytic Oxidizer, the minimum operating temperature of A-1 shall not be less than 600 degrees Fahrenheit.
- 9. To determine compliance with Condition Number 8, the dual-mode thermal/catalytic oxidizer shall be equipped with continuous measuring and temperature recording instrumentation. The temperature data collected from the temperature recorder shall be maintained in a file which shall be available for District inspection for a period of at least 2 years following the date on which such data are recorded.
- 10.To determine compliance with Condition 7, within 24 hours after start-up of the catalytic exidizer and within 24 hours after start-up of the thermal exidizer at any new location, the operator of this source shall:
 - a. Analyze the inlet gas stream to determine the vapor flow rate and concentration of POC present.
 - b. Analyze exhaust gas to determine the flow rate, and the concentration of benzene and POC present.
 - c. Calculate the benzens emission rate in pounds per day based on the exhaust gas analysis and the operating exhaust flow rate. The soil vapor flow rate shall be



BAY AREA AIR QUALITY MANAGEMENT DISTRICT



decreased, if necessary, to demonstrate compliance with Condition 7.

- d. Calculate the POC abatement efficiency based on the inlet and exhaust gas sampling analysis. For the purpose of determining compliance with condition 7, the POC concentration shall be reported as hexane.
- e. Submit to the District's Engineering Division the test results and emission calculations within one month from the testing date. Samples shall be analyzed according to modified EPA test methods 8015 and 8021 or their equivalent to determine the concentrations of POC and benzene.
- 11. Within 30 days from the completion of each treatment operation at a given location, the operator of this source shall provide the assigned Plant Engineer in the Engineering Division with a summary showing the following information:
 - a. The dates and total number of days that the equipment was at that location and the dates, and total number of days that the equipment was operated at that location.
 - b. A summary of the abatement efficiency and benzene emission rate as determined and reported in the start-up sampling report required by condition 10e above.
 - c. The results of any additionally performed emission test, analysis, or monitoring result logged in for the day of operation they were taken.
 - d. The total throughput of contaminated soil vapor processed by S-1 at that location (indicated in cubic feet).
 - e. The total emissions of benzene at that location based on the sampling results required by condition 10 above. [basis: Reg. 1-523]
- 12. Within 30 days after the end of every calendar year, the operator of this source shall provide the assigned Plant Engineer in the Engineering Division a year end summary showing the following information:
 - a. The location(s) at which the equipment was operated including the dates operated at each location.
 - The total throughput of contaminated soil vapor for the previous four quarters (indicated in cubic feet).
 - c. The total benzene emissions for the previous four quarters (indicated in pounds). (basis Reg. 1-523]
- 13. The operator shall maintain a file containing all measurements, records and other data that



BAY AREA AIR QUALITY MANAGEMENT DISTRICT



are required to be collected pursuant to the various provisions of this conditional Permit to Operate. All measurements, records and data required to be maintained by the operator shall be retained for at least two years following the date the data is recorded. [basis Reg. 1-523]

14. Any non-compliance with these conditions shall be reported to the Compliance and Enforcement Division at the time that it is first discovered. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well as the time of occurrence.

Appendix D
Notification Letters to the BAAQMD





3330 Cameron Park Drive, Ste 550 Cameron Park, California 95682 (530) 676-6004 ~ Fax: (530) 676-6005

November 4, 2005 Project No. U-SUNOL

Mr. Robert Cave Bay Area Air Quality Management District 939 Ellis Street San Francisco, California 94109

Re: Notification of Proposed SVE Test

(BAAQMD Application No. 12773 & Plant No. 17101)

Chevron Pipeline Company Sunol Pipeline Spill Area

Sunol, California

Dear Mr. Cave:

Stratus Environmental, Inc. (Stratus), on behalf of URS Corporation Americas (URS), has prepared this letter to notify the Bay Area Air Quality Management District (BAAQMD) of a proposed 5-day soil vapor extraction (SVE) test at Chevron Pipeline Company, Sunol Pipeline Spill Area, Sunol, California (Figure 1). The objective of the SVE test is to evaluate the petroleum hydrocarbon concentrations in soil. The test is currently scheduled to be completed between November 8 and 14, 2005. The proposed SVE system will be operated 24 hours a day during the testing period, using a 49-horsepower (hp) rated propane generator.

Petroleum hydrocarbon laden soil vapors will be extracted from vapor extraction wells (VEW-1 through VEW-3, see Figure 1) using the 15-hp rated liquid ring blower of the CBA Equipment, LLC (CBA) 200 cubic feet per minute (cfm) thermal oxidizer. The extracted soil vapors will be abated in a thermal oxidizer before discharging into the atmosphere (see Figure 2).

SYSTEM START-UP AND OPERATION

During the system start-up, the following parameters will be monitored and recorded on field data sheets:

- Influent, operating, and effluent temperatures,
- Vapor extraction rate,

November 4, 2005

- Applied vacuum at each vapor extraction well,
- Influent flow into the system, and
- Photo-ionization detector (PID) measurements for organic vapors from the extraction wells.

In addition, Stratus will collect one set of influent and effluent air samples within 24-hours of the start-up, and forward them to a state-certified laboratory for chemical analysis. The air samples will be analyzed on a 24-hour turnaround basis for total petroleum hydrocarbons as gasoline (TPHG) by United States Environmental Protection Agency (USEPA) Method 8015, and for benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl tertiary butyl ether (MTBE) by USEPA Method 8020. Analytical results and field data collected will be used to calculate and verify the destruction efficiency of the system.

Upon completion of the test and receipt of the analytical results, Stratus will forward the analytical results, estimated mass emission rates, and destruction efficiency of the system via facsimile to BAAQMD.

If you have any questions regarding this notification, please call Gowri Kowtha at (530) 676-6001.

Sincerely,

STRATUS ENVIRONMENTAL, INC.

Kiran Nagaraju Staff Engineer Gowri S. Kowtha, P.E.

Project Manager

Attachments

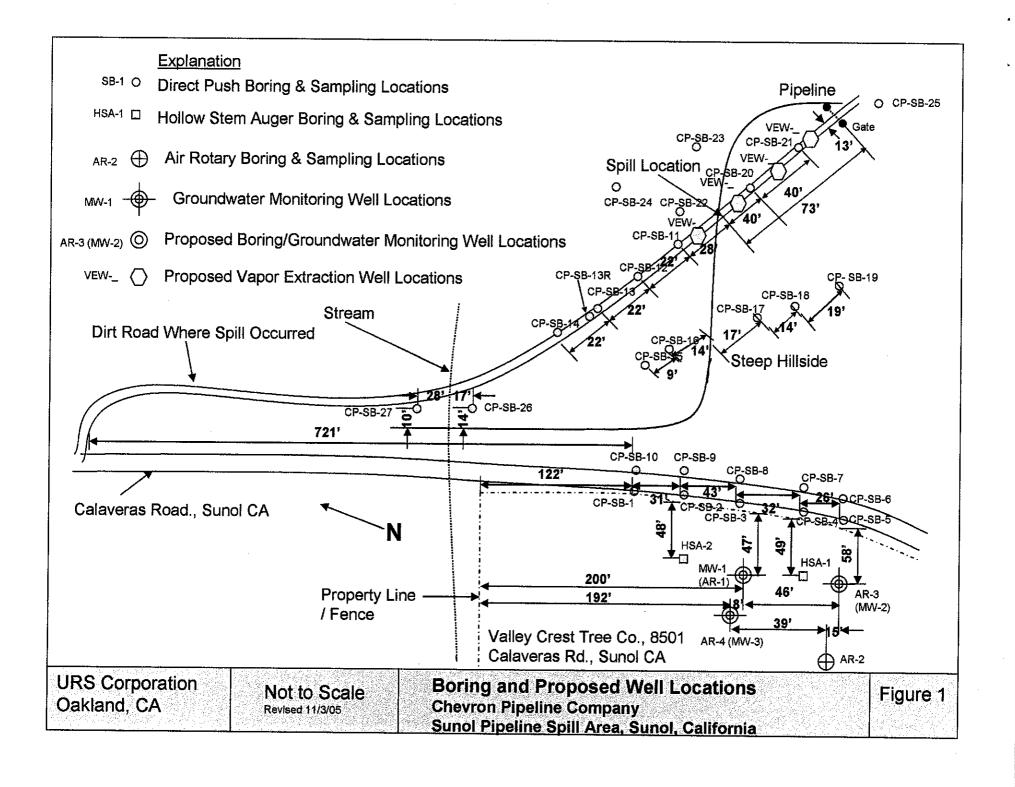
Figure 1

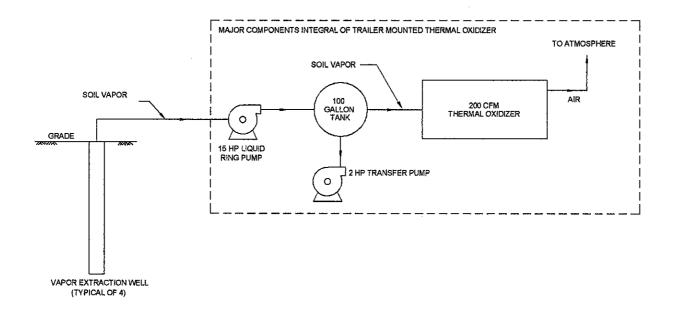
Site Plan – Boring and Proposed Well Locations

Figure 2

Process Flow Diagram

cc: Ms. Angela Liang, URS Corporation Americas





SOIL VAPOR EXTRACTION & ABATEMENT NOT TO SCALE

THIS IS A PROCESS FLOW DIAGRAM, THEREFORE INSTRUMENTATION AND CONTROL EQUIPMENT DETAILS ARE NOT SHOWN.
INSTRUMENT FUNCTIONS AND INTERACTIONS ARE ALSO NOT SHOWN.
EQUIPMENT SIZES ARE NOT PROPORTIONAL AND ARE NOT INDICATIVE OF FINAL SIZES.

STRATUS ENVIRONMENTAL, INC.

CHEVRON PIPELINE COMPANY SUNOL PIPELINE SPILL AREA SUNOL, CALIFORNIA

PROCESS FLOW DIAGRAM

FIGURE

2

PROJECT NO. USUNOL





3330 Cameron Park Drive, Ste 550 Cameron Park, California 95682 (530) 676-6004 ~ Fax: (530) 676-6005

November 16, 2005 Project No. U2042-2627-01

Mr. Robert Cave Bay Area Air Quality Management District 939 Ellis Street San Francisco, California 94109

Re: Notification of Proposed SVE Event

(BAAQMD Application No. 12773 & Plant No. 17101)

Chevron Pipeline Company Sunol Pipeline Spill Area

Sunol, California

Dear Mr. Cave:

Stratus Environmental, Inc. (Stratus), on behalf of CBA Equipment, LLC (CBA), has prepared this letter to notify the Bay Area Air Quality Management District (BAAQMD) regarding a 3-month soil vapor extraction (SVE) event at Calaveras Road, Sunol, California (Figure 1). The objective of the SVE event is to reduce the petroleum hydrocarbon concentrations in soil. The SVE event is scheduled to be conducted between November 14, 2005, and February 12, 2006. The proposed SVE system will be operated 24 hours a day during the testing period, using a 49-horsepower (hp) rated propane generator.

An SVE test was conducted between November 8 and 14, 2005, to evaluate the petroleum hydrocarbon concentrations in the soil. Based on the field and analytical data collected during this test, a 3-month SVE event was proposed to reduce the petroleum hydrocarbon concentrations in the soil. During the 3-month SVE event, petroleum hydrocarbon laden soil vapors will be extracted from vapor extraction wells VEW-1 through VEW-4 (see Figure 1) using the 15-hp rated liquid ring blower of the CBA 200 cubic feet per minute (cfm) thermal oxidizer. The extracted soil vapors will be abated in a thermal oxidizer before discharging into the atmosphere (see Figure 2).

SYSTEM START-UP AND OPERATION

Stratus will conduct routine site visits during the 3-month period to verify system operation, optimize system performance, and conduct maintenance, if warranted. In addition, influent and effluent air samples will also be collected on a monthly basis to verify compliance with BAAQMD permit requirements.

Mr. Robert Cave, BAAOMD Notification of Proposed SVE Event Chevron Pipeline Company, Sunol, CA Page 2

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During the system start-up and subsequent site visits, the following parameters will be monitored and recorded on field data sheets:

- Influent, operating, and effluent temperatures,
- Vapor extraction rate,
- Applied vacuum at each vapor extraction well,
- Influent flow into the system, and
- Photo-ionization detector (PID) measurements for organic vapors from the extraction wells.

The air samples collected on a monthly basis will be forwarded to a state certified laboratory and analyzed for total petroleum hydrocarbons as gasoline (TPHG) by United States Environmental Protection Agency (USEPA) Method 8015, and for benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl tertiary butyl ether (MTBE) by USEPA Method 8020. Analytical results and field data collected will be used to calculate and verify the destruction efficiency of the system.

During the SVE test conducted between November 8 and 14, 2005, petroleum hydrocarbon concentrations were below laboratory reporting limits in the effluent air sample collected on November 8, 2005. A copy of the analytical report with chain-ofcustody documentation is included in Appendix A.

Upon completion of the 3-month SVE event and receipt of all analytical results, Stratus will prepare and submit a report to BAAQMD that will include a tabulated analytical summary, estimated mass emission rates, and destruction efficiency of the system.

If you have any questions regarding this notification, please call Gowri Kowtha at (530) 676-6001.

Sincerely,

STRATUS ENVIRONMENTAL, INC.

Staff Engineer

wri S. Kowtha, P.E.

Project Manager

Attachments

Figure 1

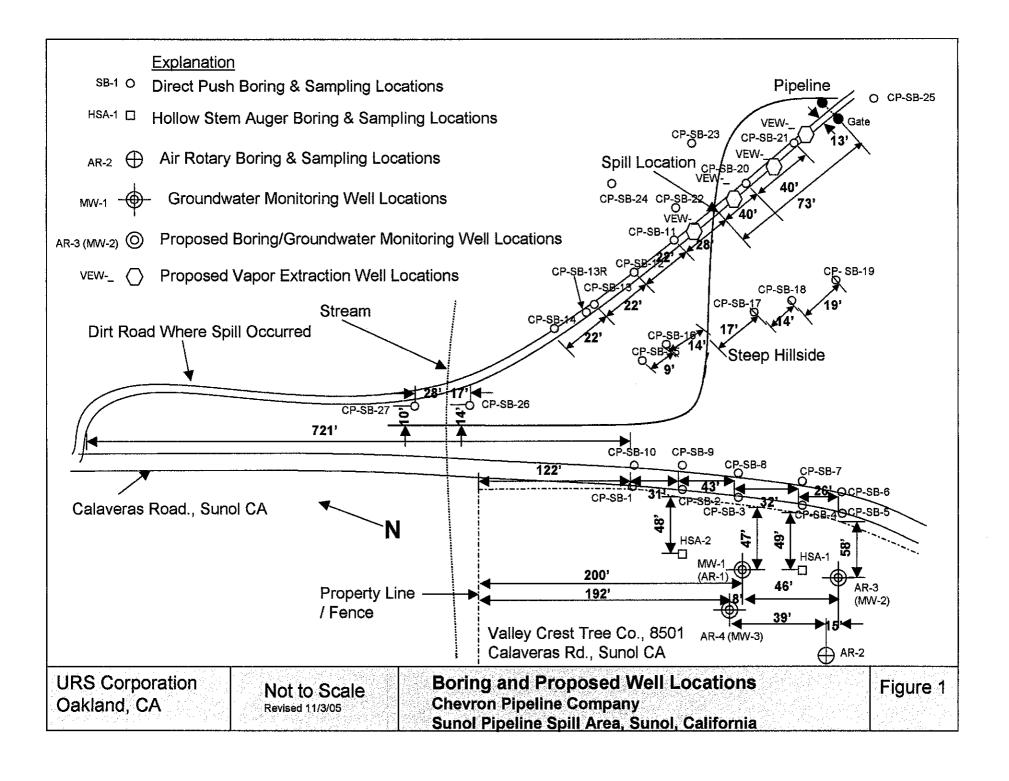
Site Plan – Boring and Proposed Well Locations

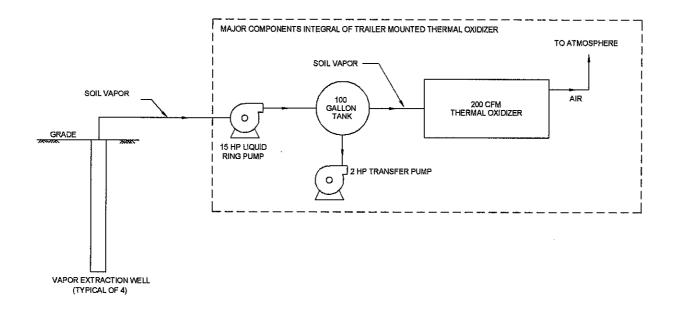
Figure 2

Process Flow Diagram

Appendix A Analytical Results and Chain-of-Custody Documentation

Ms. Angela Liang, URS Corporation Americas cc:





SOIL VAPOR EXTRACTION & ABATEMENT NOT TO SCALE

THIS IS A PROCESS FLOW DIAGRAM, THEREFORE INSTRUMENTATION AND CONTROL EQUIPMENT DETAILS ARE NOT SHOWN. INSTRUMENT FUNCTIONS AND INTERACTIONS ARE ALSO NOT SHOWN. EQUIPMENT SIZES ARE NOT PROPORTIONAL AND ARE NOT INDICATIVE OF FINAL SIZES.

STRATUS ENVIRONMENTAL, INC.

CHEVRON PIPELINE COMPANY SUNOL PIPELINE SPILL AREA SUNOL, CALIFORNIA

PROCESS FLOW DIAGRAM

FIGURE

2

PROJECT NO. USUNOL

APPENDIX A

ANALYTICAL RESULTS AND CHAIN OF CUSTODY DOCUMENTATION



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Stratus Environmental 3330 Cameron Park Drive Cameron Park, CA 956828861

Gowri Kowtha Attn: Phone: (530) 676-6001 (530) 676-6005 Date Received: 11/09/05

Job#:

Chevron Pipeline

Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B/DHS LUFT Manual Volatile Organic Compounds (VOCs) EPA Method SW8260B

	Parameter	Concentration	Reporting	Date	Date
			Limit	Sampled	Analyzed
Client ID:	TPH Purgeable	ND	15 mg/m³	11/08/05	11/09/05
SYS EFF Air	Tertiary Butyl Alcohol (TBA)	ND	7.5 mg/m³	11/08/05	11/09/05
Lab ID:	Methyl tert-butyl ether (MTBE)	ND	0.15 mg/m³	11/08/05	11/09/05
STR05110921-01A	Di-isopropyl Ether (DIPE)	ND	0.30 mg/m^3	11/08/05	11/09/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND	0.30 mg/m³	11/08/05	11/09/05
	Benzene	ND	0.15 mg/m³	11/08/05	11/09/05
	Tertiary Amyl Methyl Ether (TAME)	ND	0.30 mg/m³	11/08/05	11/09/05
	Toluene	ND	0.15 mg/m³	11/08/05	11/09/05
	Ethylbenzene	ND	0.15 mg/m³	11/08/05	11/09/05
	m,p-Xylene	ND	0.15 mg/m³	11/08/05	11/09/05
	o-Xyiene	ND	0.15 mg/m³	11/08/05	11/09/05

Note: Concentrations of air in a Tedlar Bag are at 17 degrees Celsius and 25.69 inches of mercury.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hincluman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / info@alpha-analytical.com

Report Date

Billing	Information	:
---------	-------------	---

CHAIN-OF-CUSTODY RECORD

CA

Page: 1 of t

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778

TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder: STR05110921

Report Due By: 5:00 PM On: 09-Nov-05

Client:

Stratus Environmental 3330 Cameron Park Drive

Suite 550

Cameron Park, CA 95682-8861

Report Attention: Gowri Kowtha

Job: Chevron Pipeline

EMail: gkowtha@stratusinc.net

TEL: (530) 676-6001

FAX: (530) 676-6005

Gowri Kowtha

PO:

Client's COC#: 7366

EDD Required: Yes

Sampled by : C. Hill

Cooler Temp: N/A°C

Date Printed:

09-Nov-05

QC Level: S3

CC Report:

= Final Rpt, MBLK, LCS, MS/MSD With Surrogates

										Request	ed Tests		
Alpha	Client	Collection	No. o	f Bottles	5		TPH/P_A	VOC_A					
Sample ID	Sample ID	Matrix Date	ORG	SUB	TAT	PWS#			<u> </u>			<u> </u>	Sample Remarks
STR05110921-01A	SYS EFF Air	AR 11/08/05 12:36	1	0	1		GAS-N/C	BTEX/ 5OXY	:				Tedlar

Comments:

No security seals present. Ca ASAP tat. Send copy of receipt checklist with final report. :

Signature **Print Name** Company Date/Time Alpha Analytical, Inc. Logged in by:

Application of the property of	Billing Information:	Alph	a Analytical, Inc.	Samples Collected From	Which State?
ADDITIONAL INSTRUCTIONS: Selections of the selection of	Name STUMUS ENV	255 GI	endale Avenue, Suite 21	ID OR OTHER	WA Page # \ of
Figure 1 State Supple Supp	City State Find Manually Fife.	1 See LA Februari			
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Key: AQ - Aqueous SO - Soil WA - Waste OT - Other **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT Other					
	Received by				
NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis			L-Liter V-Voa S-Soil I	ar O-Orho T-Tedlar B Dro.	Se P-Plactic OT Other
	NOTE: Samples are discarded 60 days after results are reported u	nless other arrangements are m	ade. Hazardous samples will b	De returned to client or disposed of at clien	of expense. The report for the analysis

Appendix E Laboratory Analytical Reports



Analysis Report

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

ANALYTICAL RESULTS

Prepared for:

Chevron Pipeline Co. 2811 Hayes Road Houston TX 77082

281-596-3564

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 966616. Samples arrived at the laboratory on Wednesday, November 09, 2005. The PO# for this group is 99011184.

Client Description	Lancaster Labs Number
SVE-ID-110805 Tedlar Bag Grab Air Sample	4643396
SVE-2S-110805 Tedlar Bag Grab Air Sample	4643397
SVE-3S-110805 Tedlar Bag Grab Air Sample	4643398
SVE-IN-110805 Tedlar Bag Grab Air Sample	4643399

ELECTRONIC	Chevron Pipeline Co.	Attn: Angela Liang
COPY TO		
ELECTRONIC	Chevron Pipeline Co.	Attn: Joe Morgan
COPY TO	•	_
ELECTRONIC	Chevron Pipeline Co	Attn: April Giangerelli
COPY TO	•	



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Questions? Contact your Client Services Representative Heidi L Ortenzi at (717) 656-2300

Respectfully Submitted,

Rachel R. Cochis Group Leader

Kachel & Cockis



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4643396

 ${\tt SVE-ID-110805}$ Tedlar Bag Grab Air Sample Sunol, CA

Collected:11/08/2005 by AL Account Number: 11875

 Submitted: 11/09/2005 09:00
 Chevron Pipeline Co.

 Reported: 11/10/2005 at 16:10
 2811 Hayes Road

 Discard: 12/11/2005
 Houston TX 77082

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
07548	>C4-C10 Hydrocarbons in Air					
07551	>C4-C10 Hydrocarbons hexane The reporting limits for the GC/ because sample dilution was nece calibration range of the system.	MS volatile co	-		ppm(v)	10
07869	TO-14A VOA Ext. List Tedlar					
07238	Benzene	71-43-2	310,000.	5,000.	ppb(v)	5000
07250	Toluene	108-88-3	1,600,000.	50,000.	ppb (v)	50000
07261	Ethylbenzene	100-41-4	120,000.	5,000.	ppb(v)	5000
07262	m/p-Xylene	1330-20-7	790,000.	5,000.	ppb(v)	5000
07263	o-Xylene	95-47-6	240,000.	5,000.	ppb(v)	5000
	The sample was collected in a Tereferenced in the EPA method. The reporting limits for the GC/because sample dilution was necessary.	MS volatile co	ompounds were rais	sed		

State of California Lab Certification No. 2116

calibration range of the system.

CAT			-	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	11/09/2005 12:25	David I Ressler	10
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	11/09/2005 13:41	Jeffrey B Smith	50000
07869	TO-14A VOA Ext. List	EPA TO14A	1	11/09/2005 14:19	Jeffrey B Smith	5000



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4643397

SVE-2S-110805 Tedlar Bag Grab Air Sample Sunol, CA

Collected:11/08/2005 by AL Account Number: 11875

 Submitted: 11/09/2005 09:00
 Chevron Pipeline Co.

 Reported: 11/10/2005 at 16:10
 2811 Hayes Road

 Discard: 12/11/2005
 Houston TX 77082

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
07548	>C4-C10 Hydrocarbons in Air					
07551	>C4-C10 Hydrocarbons hexane	n.a.	3,300.	10.	ppm(v)	1
07869	TO-14A VOA Ext. List Tedlar					
07238	Benzene	71-43-2	20,000.	500.	ppb(v)	500
07250	Toluene	108-88-3	52,000.	5,000.	ppb(v)	5000
07261	Ethylbenzene	100-41-4	500. U	500.	ppb(v)	500
07262	m/p-Xylene	1330-20-7	42,000.	500.	ppb(v)	500
07263	o-Xylene	95-47-6	14,000.	500.	ppb(v)	500

The sample was collected in a Tedlar bag which is not the container referenced in the ${\ EPA}$ method.

The reporting limits for the GC/MS volatile compounds were raised

because sample dilution was necessary to bring target compounds into the calibration range of the system.

State of California Lab Certification No. 2116

CAT			-	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	11/09/2005 11:56	David I Ressler	1
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	11/09/2005 12:26	Jeffrey B Smith	5000
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	11/09/2005 13:03	Jeffrey B Smith	500



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4643398

 ${\tt SVE-3S-110805}$ Tedlar Bag Grab Air Sample Sunol, CA

Collected:11/08/2005 by AL Account Number: 11875

 Submitted: 11/09/2005 09:00
 Chevron Pipeline Co.

 Reported: 11/10/2005 at 16:10
 2811 Hayes Road

 Discard: 12/11/2005
 Houston TX 77082

because sample dilution was necessary to bring target compounds into the

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
07548	>C4-C10 Hydrocarbons in Air					
07551	>C4-C10 Hydrocarbons hexane The reporting limits for the GC/ because sample dilution was nece calibration range of the system.	essary to bring	-		ppm(v)	10
07869	TO-14A VOA Ext. List Tedlar					
07238	Benzene	71-43-2	680,000.	50,000.	ppb(v)	50000
07250	Toluene	108-88-3	4,700,000.	50,000.	ppb(v)	50000
07261	Ethylbenzene	100-41-4	460,000.	5,000.	ppb(v)	5000
07262	m/p-Xylene	1330-20-7	1,600,000.	50,000.	ppb(v)	50000
07263	o-Xylene	95-47-6	500,000.	50,000.	ppb(v)	50000
	The sample was collected in a Tereferenced in the EPA method. The reporting limits for the GC/	3				

State of California Lab Certification No. 2116

calibration range of the system.

CAT			-	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	11/09/2005 13:23	David I Ressler	10
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	11/09/2005 14:57	Jeffrey B Smith	50000
07869	TO-14A VOA Ext. List	EPA TO14A	1	11/09/2005 15:34	Jeffrey B Smith	5000



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4643399

 ${\tt SVE-IN-110805}$ Tedlar Bag Grab Air Sample Sunol, CA

Collected:11/08/2005 14:50 by GW Account Number: 11875

 Submitted: 11/09/2005 09:00
 Chevron Pipeline Co.

 Reported: 11/10/2005 at 16:10
 2811 Hayes Road

 Discard: 12/11/2005
 Houston TX 77082

because sample dilution was necessary to bring target compounds into the

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
07548	>C4-C10 Hydrocarbons in Air					
07551	>C4-C10 Hydrocarbons hexane The reporting limits for the GC, because sample dilution was nece calibration range of the system	essary to bring	-		ppm(v)	10
07869	TO-14A VOA Ext. List Tedlar					
07238	Benzene	71-43-2	110,000.	10,000.	ppb(v)	10000
07250	Toluene	108-88-3	530,000.	10,000.	ppb(v)	10000
07261	Ethylbenzene	100-41-4	31,000.	10,000.	ppb(v)	10000
07262	m/p-Xylene	1330-20-7	120,000.	10,000.	ppb(v)	10000
07263	o-Xylene	95-47-6	32,000.	10,000.	ppb(v)	10000
	The sample was collected in a Toreferenced in the EPA method. The reporting limits for the GC,					

State of California Lab Certification No. 2116

calibration range of the system.

CAT			2	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	11/09/2005 14:21	David I Ressler	10
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	11/09/2005 23:06	Douglas Graham	10000



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Page 1 of 1

Quality Control Summary

Client Name: Chevron Pipeline Co. Group Number: 966616

Reported: 11/10/05 at 04:10 PM

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 <u>Result</u>	Blank <u>LOQ</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: C0531330A Benzene Toluene Ethylbenzene m/p-Xylene o-Xylene	Sample nu 1.0U 1.0U 1.0U 1.0U 1.0U	mber(s): 1.0 1.0 1.0 1.0	4643396-46 ppb(v) ppb(v) ppb(v) ppb(v) ppb(v)	43399 108 110 107 107 112		76-145 62-152 60-142 58-152 63-156		
Batch number: M053131ZA >C4-C10 Hydrocarbons hexane	Sample nu 10.U	mber(s):	4643397 ppm(v)					
Batch number: M053141ZA >C4-C10 Hydrocarbons hexane	Sample nu 10.U	mber(s):	4643396,46 ppm(v)	43398-46433	399			

*- 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.



Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	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)	Ī	liter(s)
m3	cubic meter(s)	ul	microliter(s)

- < less than The number following the sign is the <u>limit of quantitation</u>, 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		Inorganic Qualifiers
Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	E	Estimated due to interference
С	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
Р	Concentration difference between primary and	W	Post digestion spike out of control limits
	confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA < 0.995
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope 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.

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ANALYTICAL RESULTS

Prepared for:

Chevron Pipeline Co. 2811 Hayes Road Houston TX 77082

281-596-3564

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 967032. Samples arrived at the laboratory on Friday, November 11, 2005. The PO# for this group is 99011184.

Client Description	<u>Lancaster Labs Number</u>
SVE-2S-11/10/05 Summa Can #025 Grab Air Sample	4646049
SVE-1D-11/10/05 Summa Can #130 Grab Air Sample	4646050
SVE-4D-11/10/05 Summa Can #0158 Grab Air Sample	4646051
SVE-3S-11/10/05 Summa Can #019 Grab Air Sample	4646052
Influent-11/10/05 Summa Can #341 Grab Air Sample	4646053

ELECTRONIC COPY TO	Chevron Pipeline Co.	Attn: Angela Liang
ELECTRONIC COPY TO	Chevron Pipeline Co.	Attn: Joe Morgan
ELECTRONIC COPY TO	Chevron Pipeline Co	Attn: April Giangerelli



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Questions? Contact your Client Services Representative Heidi L Ortenzi at (717) 656-2300

Respectfully Submitted,

Michele J. Smith Group Leader



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4646049

SVE-2S-11/10/05 Summa Can #025 Grab Air Sample Sunol, CA

Collected:11/10/2005 10:10 by GW Account Number: 11875

Submitted: 11/11/2005 09:15 Chevron Pipeline Co. Reported: 11/14/2005 at 17:31 2811 Hayes Road Discard: 12/15/2005 Houston TX 77082

				As Received		
CAT			As Received	Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Quantitation	Units	Factor
07199	TO-14A VOA Extended List					
07238	Benzene	71-43-2	490.	10.	ppb(v)	10
07250	Toluene	108-88-3	1,500.	100.	ppb(v)	100
07261	Ethylbenzene	100-41-4	81.	10.	ppb(v)	10
07262	m/p-Xylene	1330-20-7	1,500.	10.	ppb(v)	10
07263	o-Xylene	95-47-6	570.	10.	ppb(v)	10
	The reporting limits for the GC	/MS volatile co	ompounds were rai	sed		
	because sample dilution was nece	essary to bring	g target compound	s into the		
	calibration range of the system	•				
07548	>C4-C10 Hydrocarbons in Air					
07551	>C4-C10 Hydrocarbons hexane	n.a.	32.	20.	ppm(v)	2

State of California Lab Certification No. 2116

>C4-C10 Hydrocarbons in

07548

Air

Laboratory Chronicle CAT Analysis Dilution No. Analysis Name Method Trial# Date and Time Analyst Factor EPA TO14A 11/11/2005 14:04 Jeffrey B Smith TO-14A VOA Extended List 1 07199 11/11/2005 14:46 100 TO-14A VOA Extended List EPA TO14A Jeffrey B Smith 07199 1 10

1

11/13/2005 22:58

George M Main

2

EPA 25 modified



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4646050

SVE-1D-11/10/05 Summa Can #130 Grab Air Sample Sunol, CA

Collected:11/10/2005 10:00 by GW Account Number: 11875

 Submitted: 11/11/2005 09:15
 Chevron Pipeline Co.

 Reported: 11/14/2005 at 17:31
 2811 Hayes Road

 Discard: 12/15/2005
 Houston TX 77082

				As Received		
CAT			As Received	Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Quantitation	Units	Factor
07199	TO-14A VOA Extended List					
07238	Benzene	71-43-2	120,000.	10,000.	(v) dqq	10000
07250	Toluene	108-88-3	710,000.	10,000.		10000
			,	•	ppb(v)	
07261	Ethylbenzene	100-41-4	63,000.	1,000.	ppb(v)	1000
07262	m/p-Xylene	1330-20-7	240,000.	10,000.	ppb(v)	10000
07263	o-Xylene	95-47-6	94,000.	1,000.	ppb(v)	1000
	The reporting limits for the GC	/MS volatile c	ompounds were rai	sed		
	because sample dilution was nec	essary to bring	g target compound	s into the		
	calibration range of the system	•				
07548	>C4-C10 Hydrocarbons in Air					
07551	>C4-C10 Hydrocarbons hexane	n.a.	7,300.	20.	ppm(v)	2

State of California Lab Certification No. 2116

CAT			2	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07199	TO-14A VOA Extended List	EPA TO14A	1	11/11/2005 15:27	Jeffrey B Smith	10000
07199	TO-14A VOA Extended List	EPA TO14A	1	11/11/2005 16:08	Jeffrey B Smith	1000
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	11/13/2005 23:26	George M Main	2



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4646051

SVE-4D-11/10/05 Summa Can #0158 Grab Air Sample Sunol, CA

Collected:11/10/2005 10:25 by GW Account Number: 11875

 Submitted: 11/11/2005 09:15
 Chevron Pipeline Co.

 Reported: 11/14/2005 at 17:31
 2811 Hayes Road

 Discard: 12/15/2005
 Houston TX 77082

				As Received		
CAT			As Received	Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Quantitation	Units	Factor
07199	TO-14A VOA Extended List					
07238	Benzene	71-43-2	14,000.	1,000.	ppb(v)	1000
07250	Toluene	108-88-3	54,000.	1,000.	ppb(v)	1000
07261	Ethylbenzene	100-41-4	2,700.	100.	ppb(v)	100
07262	m/p-Xylene	1330-20-7	14,000.	100.	ppb(v)	100
07263	o-Xylene	95-47-6	3,300.	100.	ppb(v)	100
	The reporting limits for the GC	/MS volatile c	ompounds were rai	sed		
	because sample dilution was nec	essary to brin	g target compound	s into the		
	calibration range of the system					
07548	>C4-C10 Hydrocarbons in Air					
07551	>C4-C10 Hydrocarbons hexane	n.a.	1,700.	20.	ppm(v)	2
	=					

State of California Lab Certification No. 2116

Air

Laboratory Chronicle CAT Analysis Dilution No. Analysis Name Method Trial# Date and Time Analyst Factor TO-14A VOA Extended List EPA TO14A 1 Jeffrey B Smith 07199 11/11/2005 16:49 1000 TO-14A VOA Extended List EPA TO14A 11/11/2005 17:30 Jeffrey B Smith 07199 1 100 07548 >C4-C10 Hydrocarbons in EPA 25 modified 1 11/13/2005 23:56 George M Main 2



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4646052

SVE-3S-11/10/05 Summa Can #019 Grab Air Sample Sunol, CA

Collected:11/10/2005 10:20 by GW Account Number: 11875

 Submitted: 11/11/2005 09:15
 Chevron Pipeline Co.

 Reported: 11/14/2005 at 17:31
 2811 Hayes Road

 Discard: 12/15/2005
 Houston TX 77082

				As Received		
CAT			As Received	Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Quantitation	Units	Factor
07199	TO-14A VOA Extended List					
07238	Benzene	71-43-2	180,000.	10,000.	ppb(v)	10000
07250	Toluene	108-88-3	810,000.	20,000.	ppb(v)	20000
07261	Ethylbenzene	100-41-4	78,000.	10,000.	ppb(v)	10000
07262	m/p-Xylene	1330-20-7	260,000.	10,000.	ppb(v)	10000
07263	o-Xylene	95-47-6	70,000.	10,000.	ppb(v)	10000
	The reporting limits for the GC	/MS volatile c	ompounds were rai	sed		
	because sample dilution was nec	essary to brin	g target compound	s into the		
	calibration range of the system					
07548	>C4-C10 Hydrocarbons in Air					
07551	>C4-C10 Hydrocarbons hexane	n.a.	4,600.	200.	ppm(v)	20
	=					

State of California Lab Certification No. 2116

Air

Laboratory Chronicle CAT Analysis Dilution No. Analysis Name Method Trial# Date and Time Analyst Factor TO-14A VOA Extended List EPA TO14A 1 11/11/2005 18:11 Jeffrey B Smith 07199 10000 TO-14A VOA Extended List EPA TO14A Jeffrey B Smith 20000 07199 1 11/12/2005 00:49 07548 >C4-C10 Hydrocarbons in EPA 25 modified 1 11/14/2005 00:27 George M Main 20



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4646053

Influent-11/10/05 Summa Can #341 Grab Air Sample Sunol, CA

Collected:11/10/2005 10:35 by GW Account Number: 11875

Submitted: 11/11/2005 09:15 Chevron Pipeline Co. Reported: 11/14/2005 at 17:31 2811 Hayes Road Discard: 12/15/2005 Houston TX 77082

CAT	And and a Name	ara washan	As Received	As Received Limit of	*****	Dilution
No.	Analysis Name	CAS Number	Result	Quantitation	Units	Factor
07199	TO-14A VOA Extended List					
07238	Benzene	71-43-2	120.	10.	ppb(v)	10
07250	Toluene	108-88-3	1,100.	100.	ppb(v)	100
07261	Ethylbenzene	100-41-4	150.	10.	ppb(v)	10
07262	m/p-Xylene	1330-20-7	600.	10.	ppb(v)	10
07263	o-Xylene	95-47-6	210.	10.	ppb(v)	10
	The reporting limits for the GC,	MS volatile co	ompounds were rai	sed		
	because sample dilution was nece	essary to bring	g target compound	s into the		
	calibration range of the system					
07548	>C4-C10 Hydrocarbons in Air					
07551	>C4-C10 Hydrocarbons hexane	n.a.	20. U	20.	ppm(v)	2

State of California Lab Certification No. 2116

>C4-C10 Hydrocarbons in

07548

Air

Laboratory Chronicle CAT Analysis Dilution No. Analysis Name Method Trial# Date and Time Analyst Factor EPA TO14A 1 TO-14A VOA Extended List 11/11/2005 19:33 Jeffrey B Smith 07199 11/11/2005 1... 11/11/2005 20:15 100 TO-14A VOA Extended List EPA TO14A Jeffrey B Smith 07199 1 10

1

11/14/2005 00:58

George M Main

2

EPA 25 modified



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Page 1 of 1

Quality Control Summary

Client Name: Chevron Pipeline Co. Group Number: 967032

Reported: 11/14/05 at 05:31 PM

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 <u>Result</u>	Blank <u>LOQ</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: A0531530A	Sample n	umber(s):	4646049-46	46053				
Benzene	1.0Ū	1.0	(v) dqq	115		76-145		
Toluene	1.0U	1.0	ppb (v)	124		62-152		
Ethylbenzene	1.0U	1.0	(v) dag	117		60-142		
m/p-Xylene	1.0U	1.0	(v) dgg	117		58-152		
o-Xylene	1.0U	1.0	ppb(v)	118		63-156		
Batch number: M053181ZA >C4-C10 Hydrocarbons hexane	Sample no	umber(s):	4646049-46 ppm(v)	46053				

*- 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.



Acct. #: <u>//875</u> For Lancaster Laboratories use only Sample #: <u>4646049-53</u> SCR#:

Subject to the collected of the collecte												Α	naly	ses i	Requested					7 46 10300			
Chevron PM: Lead Consultant:	Facility #: Cheuron Pipeline					Matri	x					Р	rese	rvat	ation Codes					Preserva	tive Cod	es	
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Acct. #: 1875 | For Lancaster Laboratories use only | 004007 |
Sample #: 4646049 - 53 | SCR#: |

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Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	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)	Ī	liter(s)
m3	cubic meter(s)	ul	microliter(s)

- < less than The number following the sign is the <u>limit of quantitation</u>, 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		Inorganic Qualifiers
Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	E	Estimated due to interference
С	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
Р	Concentration difference between primary and	W	Post digestion spike out of control limits
	confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA < 0.995
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope 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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.



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ANALYTICAL RESULTS

Prepared for:

Chevron Pipeline Co. 2811 Hayes Road Houston TX 77082

281-596-3564

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 967323. Samples arrived at the laboratory on Monday, November 14, 2005. The PO# for this group is 99011184.

Client Description	Lancaster Labs Number
SVE-2S-11/12/05 Summa Can #106 Grab Air Sample	4648219
SVE-1D-11/12/05 Summa Can #40 Grab Air Sample	4648220
SVE-3S-11/12/05 Summa Can #31 Grab Air Sample	4648221
SVE-4D-11/12/05 Summa Can #330 Grab Air Sample	4648222

ELECTRONIC	Chevron Pipeline Co.	Attn: Angela Liang
COPY TO		
ELECTRONIC	Chevron Pipeline Co.	Attn: Joe Morgan
COPY TO	•	_
ELECTRONIC	Chevron Pipeline Co	Attn: April Giangerelli
COPY TO	•	-



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

Questions? Contact your Client Services Representative Heidi L Ortenzi at (717) 656-2300

Respectfully Submitted,

Rachel R. Cochis Group Leader

Kachel & Cockis



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4648219

SVE-2S-11/12/05 Summa Can #106 Grab Air Sample Sunol, CA

Collected:11/12/2005 by GW Account Number: 11875

 Submitted: 11/14/2005 09:45
 Chevron Pipeline Co.

 Reported: 11/15/2005 at 16:59
 2811 Hayes Road

 Discard: 12/16/2005
 Houston TX 77082

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07199	TO-14A VOA Extended List								
07238	Benzene	71-43-2	610.	20.	ppb(v)	1,900.	64.	ug/m3	100
07250	Toluene	108-88-3	2,200.	20.	ppb(v)	8,300.	75.	ug/m3	100
07261	Ethylbenzene	100-41-4	88.	20.	ppb(v)	380.	87.	ug/m3	100
07262	m/p-Xylene	1330-20-7	1,700.	20.	ppb(v)	7,400.	87.	ug/m3	100
07263	o-Xylene	95-47-6	710.	20.	ppb(v)	3,100.	87.	ug/m3	100
	The reporting limits for the GC	/MS volatile	compounds w	ere raise	ed				
	because sample dilution was nec	essary to bri	ng target c	ompounds	into the				
	calibration range of the system								
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	31.	2.0	ppm(v)	110.	7.0	mg/m3	2

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT				Analysis				
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor		
07199	TO-14A VOA Extended List	EPA TO14A	1	11/14/2005 21:43	Douglas Graham	100		
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	11/14/2005 16:42	Douglas Graham	2		



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4648220

SVE-1D-11/12/05 Summa Can #40 Grab Air Sample Sunol, CA

Collected:11/12/2005 by GW Account Number: 11875

 Submitted: 11/14/2005 09:45
 Chevron Pipeline Co.

 Reported: 11/15/2005 at 16:59
 2811 Hayes Road

 Discard: 12/16/2005
 Houston TX 77082

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07199	TO-14A VOA Extended List								
07238	Benzene	71-43-2	88,000.	2,000.	ppb(v)	280,000.	6,400.	ug/m3	10000
07250	Toluene	108-88-3	530,000.	2,000.	ppb(v)	2,000,00	7,500.	ug/m3	10000
07261	Ethylbenzene	100-41-4	49,000.	2,000.	ppb(v)	210,000.	8,700.	ug/m3	10000
07262	m/p-Xylene	1330-20-7	230,000.	2,000.	ppb(v)	1,000,00	8,700.	ug/m3	10000
07263	o-Xylene	95-47-6	80,000.	2,000.	ppb(v)	350,000.	8,700.	ug/m3	10000
	The reporting limits for the GC	/MS volatile	compounds w	ere raised	l				
	because sample dilution was nec	essary to bri	ng target c	ompounds i	nto the				
	calibration range of the system	•							
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	3,100.	10.	ppm(v)	11,000.	35.	mg/m3	10

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT		Analysis	Dilution			
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07199	TO-14A VOA Extended List	EPA TO14A	1	11/14/2005 23:06	Douglas Graham	10000
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	11/15/2005 11:27	David I Ressler	10



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4648221

SVE-3S-11/12/05 Summa Can #31 Grab Air Sample Sunol, CA

Collected:11/12/2005 06:50 by GW Account Number: 11875

 Submitted: 11/14/2005 09:45
 Chevron Pipeline Co.

 Reported: 11/15/2005 at 16:59
 2811 Hayes Road

 Discard: 12/16/2005
 Houston TX 77082

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07199	TO-14A VOA Extended List								
07238	Benzene	71-43-2	100,000.	2,000.	ppb(v)	320,000.	6,400.	ug/m3	10000
07250	Toluene	108-88-3	610,000.	2,000.	ppb(v)	2,300,00	7,500.	ug/m3	10000
07261	Ethylbenzene	100-41-4	72,000.	2,000.	ppb(v)	310,000.	8,700.	ug/m3	10000
07262	m/p-Xylene	1330-20-7	260,000.	2,000.	ppb(v)	1,100,00	8,700.	ug/m3	10000
07263	o-Xylene	95-47-6	91,000.	2,000.	ppb(v)	400,000.	8,700.	ug/m3	10000
	The reporting limits for the GC	/MS volatile	compounds w	ere raised	l				
	because sample dilution was nec	essary to bri	ng target c	ompounds i	nto the				
	calibration range of the system	•							
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	3,000.	10.	ppm(v)	11,000.	35.	mg/m3	10

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT	CAT				Analysis		
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor	
07199	TO-14A VOA Extended List	EPA TO14A	1	11/15/2005 00:29	Douglas Graham	10000	
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	11/15/2005 11:57	David I Ressler	10	



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4648222

SVE-4D-11/12/05 Summa Can #330 Grab Air Sample Sunol, CA

Collected:11/12/2005 07:00 by GW Account Number: 11875

 Submitted:
 11/14/2005 09:45
 Chevron Pipeline Co.

 Reported:
 11/15/2005 at 16:59
 2811 Hayes Road

 Discard:
 12/16/2005
 Houston TX 77082

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07199	TO-14A VOA Extended List								
07238	Benzene	71-43-2	37,000.	2,000.	ppb(v)	120,000.	6,400.	ug/m3	10000
07250	Toluene	108-88-3	220,000.	2,000.	ppb(v)	830,000.	7,500.	ug/m3	10000
07261	Ethylbenzene	100-41-4	21,000.	2,000.	ppb(v)	91,000.	8,700.	ug/m3	10000
07262	m/p-Xylene	1330-20-7	90,000.	2,000.	ppb(v)	390,000.	8,700.	ug/m3	10000
07263	o-Xylene	95-47-6	29,000.	2,000.	ppb(v)	130,000.	8,700.	ug/m3	10000
	The reporting limits for the GC	/MS volatile o	compounds w	ere raised	l				
	because sample dilution was nece	essary to brin	ng target c	ompounds i	nto the				
	calibration range of the system	•							
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	4,900.	2.0	ppm(v)	17,000.	7.0	mg/m3	2

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT				Analysis				
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor		
07199	TO-14A VOA Extended List	EPA TO14A	1	11/15/2005 01:51	Douglas Graham	10000		
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	11/14/2005 14:11	David I Ressler	2		



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Page 1 of 1

Quality Control Summary

Client Name: Chevron Pipeline Co. Group Number: 967323

Reported: 11/15/05 at 04:59 PM

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 <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: A0531830A	Sample nu	mber(s):	4648219-46	48222				
Benzene	N.D.	0.20	(v) dag	113		76-145		
Toluene	N.D.	0.20	(v) dqq	111		62-152		
Ethylbenzene	N.D.	0.20	(v) dqq	103		60-142		
m/p-Xylene	N.D.	0.20	(v) dag	107		58-152		
o-Xylene	N.D.	0.20	ppb(v)	111		63-156		
Batch number: M053181ZA >C4-C10 Hydrocarbons hexane	Sample nu N.D.	mber(s):	4648219,46 ppm(v)	48222				
Batch number: M053191ZA >C4-C10 Hydrocarbons hexane	Sample nu N.D.	mber(s): 1.0	4648220-46 ppm(v)	48221				

*- 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.

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STL Chicago			Phone: 51	~- Q q	2 2	140	···										Received on Ice	Samples Intact		
2417 Bond Street University Park, IL 604	166								_ PI	none:	·						- Yes No Yes No			
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Fax: 708-534-5211			E-Mail:						_ PO	O#:			_ Quote	:						
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MS = Miscellaneous OL = Oil	L = Leachate WI = Wipe		5. Widemouth Glass 5. Other	5	. NaOH	/Zn, C	ool to 4°										Bill of Lading			
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Consultant Prj. Mgr.: Toe Morgen Consultant Phone #: 510-8-3-3600 Fax #: 510-874-3268					Ľ			of C	8021 🖂 8260 🖂 Naphth		-	_	☐ Extended Rng. ☐ Silica Gel Cleanup	ا ا ن	ع ا	en <u>b</u> !	3			8021	MTBE Co	onfirm:	ation		
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Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	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)	Ī	liter(s)
m3	cubic meter(s)	ul	microliter(s)

- < less than The number following the sign is the <u>limit of quantitation</u>, 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		Inorganic Qualifiers
Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	E	Estimated due to interference
С	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
Р	Concentration difference between primary and	W	Post digestion spike out of control limits
	confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA < 0.995
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope 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.

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ANALYTICAL RESULTS

Prepared for:

Chevron Pipeline Co. 2811 Hayes Road Houston TX 77082

281-596-3564

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 967555. Samples arrived at the laboratory on Wednesday, November 16, 2005. The PO# for this group is 99011184.

Client Description	<u>Lancaster Labs Number</u>
SVE-1D-11/15/05 Summa Can# 0197 Grab Air Sample	4649338
SVE-2S-11/15/05 Summa Can# 0141 Grab Air Sample	4649339
SVE-4D-11/15/05 Summa Can# 0069 Grab Air Sample	4649340
SVE-3S-11/15/05 Summa Can# 0172 Grab Air Sample	4649341
Influent-11/15/05 Summa Can# 0053 Grab Air Sample	4649342

ELECTRONIC COPY TO	Chevron Pipeline Co.	Attn: Angela Liang
ELECTRONIC COPY TO	Chevron Pipeline Co.	Attn: Joe Morgan
ELECTRONIC COPY TO	Chevron Pipeline Co	Attn: April Giangerelli



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Questions? Contact your Client Services Representative Heidi L Ortenzi at (717) 656-2300

Respectfully Submitted,

Rachel R. Cochis Group Leader

Kachel & Cockis



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4649338

SVE-1D-11/15/05 Summa Can# 0197 Grab Air Sample Sunol, CA

Collected:11/15/2005 10:50 by GCW Account Number: 11875

 Submitted: 11/16/2005 09:00
 Chevron Pipeline Co.

 Reported: 11/17/2005 at 16:46
 2811 Hayes Road

 Discard: 12/18/2005
 Houston TX 77082

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07199	TO-14A VOA Extended List								
07238	Benzene	71-43-2	58,000.	200.	ppb(v)	190,000.	640.	ug/m3	1000
07250	Toluene	108-88-3	320,000.	2,000.	ppb(v)	1,200,00	7,500.	ug/m3	10000
07261	Ethylbenzene	100-41-4	32,000.	200.	ppb(v)	140,000.	870.	ug/m3	1000
07262	m/p-Xylene	1330-20-7	150,000.	200.	ppb(v)	650,000.	870.	ug/m3	1000
07263	o-Xylene	95-47-6	44,000.	200.	ppb(v)	190,000.	870.	ug/m3	1000
	The reporting limits for the GC	/MS volatile	compounds w	ere raise	d				
	because sample dilution was nec	essary to bri	ng target c	ompounds	into the				
	calibration range of the system								
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	3,100.	1.0	ppm(v)	11,000.	3.5	mg/m3	1

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07199	TO-14A VOA Extended List	EPA TO14A	1	11/16/2005 18:41	Douglas Graham	10000
07199	TO-14A VOA Extended List	EPA TO14A	1	11/16/2005 19:23	Douglas Graham	1000
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	11/16/2005 12:34	David I Ressler	1



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4649339

SVE-2S-11/15/05 Summa Can# 0141 Grab Air Sample Sunol, CA

Collected:11/15/2005 10:55 by GCW Account Number: 11875

 Submitted: 11/16/2005 09:00
 Chevron Pipeline Co.

 Reported: 11/17/2005 at 16:46
 2811 Hayes Road

 Discard: 12/18/2005
 Houston TX 77082

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07199	TO-14A VOA Extended List								
07238	Benzene	71-43-2	920.	2.0	ppb(v)	2,900.	6.4	ug/m3	10
07250	Toluene	108-88-3	3,800.	20.	ppb(v)	14,000.	75.	ug/m3	100
07261	Ethylbenzene	100-41-4	160.	2.0	ppb(v)	690.	8.7	ug/m3	10
07262	m/p-Xylene	1330-20-7	2,200.	20.	ppb(v)	9,600.	87.	ug/m3	100
07263	o-Xylene	95-47-6	900.	20.	ppb(v)	3,900.	87.	ug/m3	100
	The reporting limits for the GC	/MS volatile	compounds w	ere raise	d				
	because sample dilution was nec	essary to bri	ng target c	ompounds	into the				
	calibration range of the system								
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	26.	1.0	ppm(v)	92.	3.5	mg/m3	1

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07199	TO-14A VOA Extended List	EPA TO14A	1	11/16/2005 20:04	Douglas Graham	100
07199	TO-14A VOA Extended List	EPA TO14A	1	11/16/2005 20:46	Douglas Graham	10
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	11/16/2005 13:19	David I Ressler	1



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4649340

SVE-4D-11/15/05 Summa Can# 0069 Grab Air Sample Sunol, CA

Collected:11/15/2005 11:05 by GCW Account Number: 11875

 Submitted: 11/16/2005 09:00
 Chevron Pipeline Co.

 Reported: 11/17/2005 at 16:46
 2811 Hayes Road

 Discard: 12/18/2005
 Houston TX 77082

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07199	TO-14A VOA Extended List								
07238	Benzene	71-43-2	29,000.	200.	ppb(v)	93,000.	640.	ug/m3	1000
07250	Toluene	108-88-3	170,000.	2,000.	ppb(v)	640,000.	7,500.	ug/m3	10000
07261	Ethylbenzene	100-41-4	12,000.	200.	ppb(v)	52,000.	870.	ug/m3	1000
07262	m/p-Xylene	1330-20-7	53,000.	200.	ppb(v)	230,000.	870.	ug/m3	1000
07263	o-Xylene	95-47-6	16,000.	200.	ppb(v)	69,000.	870.	ug/m3	1000
	The reporting limits for the GC	/MS volatile	compounds w	ere raised	f				
	because sample dilution was nec	essary to bri	ng target c	ompounds i	into the				
	calibration range of the system	•							
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	5,600.	2.0	ppm(v)	20,000.	7.0	mg/m3	2

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07199	TO-14A VOA Extended List	EPA TO14A	1	11/16/2005 21:27	Douglas Graham	10000
07199	TO-14A VOA Extended List	EPA TO14A	1	11/16/2005 22:08	Douglas Graham	1000
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	11/16/2005 14:07	David I Ressler	2



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4649341

SVE-3S-11/15/05 Summa Can# 0172 Grab Air Sample Sunol, CA

Collected:11/15/2005 11:10 by GCW Account Number: 11875

 Submitted: 11/16/2005 09:00
 Chevron Pipeline Co.

 Reported: 11/17/2005 at 16:46
 2811 Hayes Road

 Discard: 12/18/2005
 Houston TX 77082

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07199	TO-14A VOA Extended List								
07238	Benzene	71-43-2	85,000.	200.	ppb(v)	270,000.	640.	ug/m3	1000
07250	Toluene	108-88-3	420,000.	2,000.	ppb(v)	1,600,00 0.	7,500.	ug/m3	10000
07261	Ethylbenzene	100-41-4	44,000.	200.	ppb(v)	190,000.	870.	ug/m3	1000
07262	m/p-Xylene	1330-20-7	160,000.	200.	ppb(v)	690,000.	870.	ug/m3	1000
07263	o-Xylene	95-47-6	49,000.	200.	ppb(v)	210,000.	870.	ug/m3	1000
	The reporting limits for the GC	/MS volatile	compounds w	ere raise	f				
	because sample dilution was nec	essary to bri	ng target d	ompounds	into the				
	calibration range of the system	•							
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	7,800.	2.0	ppm(v)	27,000.	7.0	mg/m3	2

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07199	TO-14A VOA Extended List	EPA TO14A	1	11/16/2005 22:50	Douglas Graham	10000
07199	TO-14A VOA Extended List	EPA TO14A	1	11/16/2005 23:31	Douglas Graham	1000
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	11/16/2005 14:44	David I Ressler	2



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4649342

Influent-11/15/05 Summa Can# 0053 Grab Air Sample Sunol, CA

Collected:11/15/2005 11:25 by GCW Account Number: 11875

 Submitted: 11/16/2005 09:00
 Chevron Pipeline Co.

 Reported: 11/17/2005 at 16:46
 2811 Hayes Road

 Discard: 12/18/2005
 Houston TX 77082

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07199	TO-14A VOA Extended List								
07238	Benzene	71-43-2	230.	2.0	ppb(v)	730.	6.4	ug/m3	10
07250	Toluene	108-88-3	1,200.	20.	ppb(v)	4,500.	75.	ug/m3	100
07261	Ethylbenzene	100-41-4	130.	2.0	ppb(v)	560.	8.7	ug/m3	10
07262	m/p-Xylene	1330-20-7	530.	2.0	ppb(v)	2,300.	8.7	ug/m3	10
07263	o-Xylene	95-47-6	170.	2.0	ppb(v)	740.	8.7	ug/m3	10
	The reporting limits for the GC	/MS volatile	compounds w	ere raised	i				
	because sample dilution was nec	essary to bri	ng target c	ompounds i	nto the				
	calibration range of the system								
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	18.	2.0	ppm(v)	62.	7.0	mg/m3	2

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT		_		Analysis		Dilution	
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor	
07199	TO-14A VOA Extended List	EPA TO14A	1	11/17/2005 00:12	Douglas Graham	100	
07199	TO-14A VOA Extended List	EPA TO14A	1	11/17/2005 00:53	Douglas Graham	10	
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	11/16/2005 15:16	David I Ressler	2	



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Page 1 of 1

Quality Control Summary

Client Name: Chevron Pipeline Co. Group Number: 967555

Reported: 11/17/05 at 04:46 PM

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 <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: A0532030A	Sample ni	umber(s):	4649338-46	49342				
Benzene	N.D.	0.20	(v) dqq	97		76-145		
Toluene	N.D.	0.20	ppb(v)	109		62-152		
Ethylbenzene	N.D.	0.20	(v) dqq	101		60-142		
m/p-Xylene	N.D.	0.20	(v) dag	106		58-152		
o-Xylene	N.D.	0.20	ppb(v)	108		63-156		
Batch number: M053201ZA >C4-C10 Hydrocarbons hexane	Sample ni N.D.	umber(s): 1.0	4649338-46 ppm(v)	49342				

*- 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.

11875/967555/4649338-42

URS

500 12th Street, Suite 200 Oakland, CA 94607-4014 (510) 893-3600

Chain of Custody Record

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DATE	TIME	SAN	IPLE NUMBEI		(S)oil, (W)ater, (A)ir	EPA Method	EPA Method	EPA Method	EPA Melhod	BTEX				,				Number of Containers		handl procedure	
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11875/967555/4649338-42

URS

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Chain of Custody Record

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11875/967555/4649338-42

URS

500 12th Street, Suite 200 Oakland, CA 94607-4014 (510) 893-3600

Chain of Custody Record

PROJE	CT NO.	Cheuron Pipeline						ΑN	\AL\	/SE	s				S	
SAMPL	ERS: (S	ignature)	Į.					मध	8lQ						Number of Containers	REMARKS (Sample preservation, handling
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Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	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)	Ī	liter(s)
m3	cubic meter(s)	ul	microliter(s)

- < less than The number following the sign is the <u>limit of quantitation</u>, 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		Inorganic Qualifiers
Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	Ε	Estimated due to interference
С	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
Р	Concentration difference between primary and	W	Post digestion spike out of control limits
	confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA < 0.995
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope 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.

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ANALYTICAL RESULTS

Prepared for:

Chevron Pipeline Co. 2811 Hayes Road Houston TX 77082

281-596-3564

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 968852. Samples arrived at the laboratory on Friday, November 25, 2005. The PO# for this group is 99011184.

Client Description	Lancaster Labs Number
SVE-1D-112305 Summa# 156 Grab Air Sample	4656935
SVE-4D-112305 Summa# 136 Grab Air Sample	4656936
SVE-2S-112305 Summa# 294 Grab Air Sample	4656937
SVE-3S-112305 Summa# 384 Grab Air Sample	4656938

ELECTRONIC	Chevron Pipeline Co.	Attn: Angela Liang
COPY TO		
ELECTRONIC	Chevron Pipeline Co.	Attn: Joe Morgan
COPY TO	•	_
ELECTRONIC	Chevron Pipeline Co	Attn: April Giangerelli
COPY TO	•	-



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Questions? Contact your Client Services Representative Heidi L Ortenzi at (717) 656-2300

Respectfully Submitted,

Michele J. Smith Group Leader



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4656935

SVE-1D-112305 Summa# 156 Grab Air Sample Mile Post 2.7 Calavas Rd. Sunol, CA

Collected:11/23/2005 08:00 by AL Account Number: 11875

 Submitted: 11/25/2005 09:35
 Chevron Pipeline Co.

 Reported: 11/28/2005 at 16:49
 2811 Hayes Road

 Discard: 12/29/2005
 Houston TX 77082

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07199	TO-14A VOA Extended List								
07238	Benzene	71-43-2	110,000.	2,000.	ppb(v)	350,000.	6,400.	ug/m3	10000
07250	Toluene	108-88-3	910,000.	2,000.	ppb(v)	3,400,00	7,500.	ug/m3	10000
07261	Ethylbenzene	100-41-4	82,000.	2,000.	ppb(v)	360,000.	8,700.	ug/m3	10000
07262	m/p-Xylene	1330-20-7	360,000.	2,000.	ppb(v)	1,600,00 0.	8,700.	ug/m3	10000
07263	o-Xylene	95-47-6	110,000.	2,000.	ppb(v)	480,000.	8,700.	ug/m3	10000
	Due to the sample matrix an ini analysis. Therefore, the repor				form the				
07548	>C4-C10 Hydrocarbons in Air								
07549	>C4-C10 Hydrocarbons methane	n.a.	26,000.	10.	ppm(v)	17,000.	6.6	mg/m3	10
07550	>C4-C10 Hydrocarbons propane	n.a.	8,100.	10.	ppm(v)	15,000.	18.	mg/m3	10
07551	>C4-C10 Hydrocarbons hexane	n.a.	4,400.	10.	ppm(v)	16,000.	35.	mg/m3	10

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT		Analysis	Dilution			
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07199	TO-14A VOA Extended List	EPA TO14A	1	11/27/2005 16:21	Jeffrey B Smith	10000
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	11/28/2005 09:24	David I Ressler	10



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4656936

SVE-4D-112305 Summa# 136 Grab Air Sample Mile Post 2.7 Calavas Rd. Sunol, CA

Collected:11/23/2005 08:05 by AL Account Number: 11875

 Submitted: 11/25/2005 09:35
 Chevron Pipeline Co.

 Reported: 11/28/2005 at 16:49
 2811 Hayes Road

 Discard: 12/29/2005
 Houston TX 77082

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07199	TO-14A VOA Extended List								
07238	Benzene	71-43-2	260.	10.	ppb(v)	830.	32.	ug/m3	50
07250	Toluene	108-88-3	2,600.	10.	ppb(v)	9,800.	38.	ug/m3	50
07261	Ethylbenzene	100-41-4	390.	10.	ppb(v)	1,700.	43.	ug/m3	50
07262	m/p-Xylene	1330-20-7	2,100.	10.	ppb(v)	9,100.	43.	ug/m3	50
07263	o-Xylene	95-47-6	740.	10.	ppb(v)	3,200.	43.	ug/m3	50
	Due to the sample matrix an ini analysis. Therefore, the repor				rform the				
07548	>C4-C10 Hydrocarbons in Air								
07549	>C4-C10 Hydrocarbons methane	n.a.	100.	2.0	ppm(v)	66.	1.3	mg/m3	2
07550	>C4-C10 Hydrocarbons propane	n.a.	33.	2.0	ppm(v)	60.	3.6	mg/m3	2
07551	>C4-C10 Hydrocarbons hexane	n.a.	18.	2.0	ppm(v)	62.	7.0	mg/m3	2

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT		Analysis	Dilution			
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07199	TO-14A VOA Extended List	EPA TO14A	1	11/28/2005 06:29	Jeffrey B Smith	50
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	11/28/2005 08:14	David I Ressler	2



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4656937

SVE-2S-112305 Summa# 294 Grab Air Sample Mile Post 2.7 Calavas Rd. Sunol, CA

Collected:11/23/2005 07:50 by AL Account Number: 11875

 Submitted:
 11/25/2005 09:35
 Chevron Pipeline Co.

 Reported:
 11/28/2005 at 16:49
 2811 Hayes Road

 Discard:
 12/29/2005
 Houston TX 77082

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07199	TO-14A VOA Extended List								
07238	Benzene	71-43-2	470.	10.	ppb(v)	1,500.	32.	ug/m3	50
07250	Toluene	108-88-3	3,100.	10.	ppb(v)	12,000.	38.	ug/m3	50
07261	Ethylbenzene	100-41-4	430.	10.	ppb(v)	1,900.	43.	ug/m3	50
07262	m/p-Xylene	1330-20-7	3,600.	10.	ppb(v)	16,000.	43.	ug/m3	50
07263	o-Xylene	95-47-6	1,700.	10.	ppb(v)	7,400.	43.	ug/m3	50
	Due to the sample matrix an ini	tial dilution	was necess	ary to per	form the				
	analysis. Therefore, the repor	ting limits w	ere raised.						
07548	>C4-C10 Hydrocarbons in Air								
07549	>C4-C10 Hydrocarbons methane	n.a.	130.	2.0	ppm(v)	85.	1.3	mg/m3	2
07550	>C4-C10 Hydrocarbons propane	n.a.	41.	2.0	ppm(v)	74.	3.6	mg/m3	2
07551	>C4-C10 Hydrocarbons hexane	n.a.	22.	2.0	ppm(v)	78.	7.0	mg/m3	2

State of California Lab Certification No. 2116

MDL = Method Detection Limit

	Analysis	Analysis						
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor			
TO-14A VOA Extended List	EPA TO14A	1	11/28/2005 07:10	Jeffrey B Smith	50			
>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	11/28/2005 10:33	David I Ressler	2			
	TO-14A VOA Extended List	TO-14A VOA Extended List EPA TO14A	TO-14A VOA Extended List EPA TO14A 1	Analysis Name Method Trial# Date and Time TO-14A VOA Extended List EPA TO14A 1 11/28/2005 07:10	Analysis Name Method Trial# Date and Time Analyst TO-14A VOA Extended List EPA TO14A 1 11/28/2005 07:10 Jeffrey B Smith			



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4656938

SVE-3S-112305 Summa# 384 Grab Air Sample Mile Post 2.7 Calavas Rd. Sunol, CA

Collected:11/23/2005 07:55 by AL Account Number: 11875

 Submitted: 11/25/2005 09:35
 Chevron Pipeline Co.

 Reported: 11/28/2005 at 16:49
 2811 Hayes Road

 Discard: 12/29/2005
 Houston TX 77082

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07199	TO-14A VOA Extended List								
07238	Benzene	71-43-2	180,000.	4,000.	ppb(v)	580,000.	13,000.	ug/m3	20000
07250	Toluene	108-88-3	1,100,00	4,000.	ppb(v)	4,100,00 0.	15,000.	ug/m3	20000
07261	Ethylbenzene	100-41-4	100,000.	4,000.	ppb(v)	430,000.	17,000.	ug/m3	20000
07262	m/p-Xylene	1330-20-7	340,000.	4,000.	ppb(v)	1,500,00 0.	17,000.	ug/m3	20000
07263	o-Xylene	95-47-6	110,000.	4,000.	ppb(v)	480,000.	17,000.	ug/m3	20000
	Due to the sample matrix an ini analysis. Therefore, the repor				rform the				
07548	>C4-C10 Hydrocarbons in Air								
07549	>C4-C10 Hydrocarbons methane	n.a.	21,000.	10.	ppm(v)	14,000.	6.6	mg/m3	10
07550	>C4-C10 Hydrocarbons propane	n.a.	6,600.	10.	ppm(v)	12,000.	18.	mg/m3	10
07551	>C4-C10 Hydrocarbons hexane	n.a.	3,500.	10.	ppm(v)	12,000.	35.	mg/m3	10

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07199	TO-14A VOA Extended List	EPA TO14A	1	11/28/2005 07:51	Jeffrey B Smith	20000
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	11/28/2005 10:04	David I Ressler	10



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Page 1 of 1

Quality Control Summary

Client Name: Chevron Pipeline Co. Group Number: 968852

Reported: 11/28/05 at 04:49 PM

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 <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: A0533130A	_		4656935-46					
Benzene	N.D.	0.20	ppb(v)	88		76-145		
Toluene	N.D.	0.20	ppb(v)	97		62-152		
Ethylbenzene	N.D.	0.20	(v) dqq	89		60-142		
m/p-Xylene	N.D.	0.20	(v) dqq	90		58-152		
o-Xylene	N.D.	0.20	ppb(v)	93		63-156		
Batch number: M053321ZA	Sample nu	mber(s):	4656935-46	56938				
>C4-C10 Hydrocarbons methane	2.0	1.0	ppm(v)					
>C4-C10 Hydrocarbons propane	N.D.	1.0	(v) mag					
>C4-C10 Hydrocarbons hexane	N.D.	1.0	ppm(v)					
-			'					

*- 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.

one of Custody



And # 1187	For Lancaster Laboratories use only	004010P
MOOL #	Sample #: 4656935-38 SCR#:	

Site Address: Mile Post 2: 7 Calavians Road Stand Chevron PM: Lead Consultant: LIRS Consultant Pri, Mgr.: Job Morgan Consultant Pri, Mgr.:	Same a Clearing O								Analyses Requested									7						
Site Address: Mile Vost 2.7 (Alusiants Road Sunol Chevron PM: Lead Consultant: LIRS Sunol Chevron PM: Lead Consultant: LIRS Sunol Consultant Pri, Mgr.: Joe Monay Sunol Pas #: 510 814: 3-248 Consultant Pri, Mgr.: Joe Monay Sunol Pas #: 510 814: 3-248 Service Order #: Sunol S	Facility#: Chevron Pipeline				T	Mat	ix						res	rva	tion	Cor	les							
Chevron PM: Lead Consultant: IRS Consultant/Office: Make And Consultant: IRS Consultant Phone #: 510. 812. 3600 Fax #: 510. 814. 3268 Sampler: Angela Law Service Order #: INDIN SAR: INDI SAR: INDIN SAR:	Site Address: Mile Post 2.7 Calava	gas Roa	d. Sum	20																ᅱᇈ				
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Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	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)	Ī	liter(s)
m3	cubic meter(s)	ul	microliter(s)

- < less than The number following the sign is the <u>limit of quantitation</u>, 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		Inorganic Qualifiers
Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	Ε	Estimated due to interference
С	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
Р	Concentration difference between primary and	W	Post digestion spike out of control limits
	confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA < 0.995
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope 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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.

Unit

DF

Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

Sample Number: AQ 4658436

Account: 11875

SVE-1D-11/29/05 Summa Can# 0421 Grab Air

Sample Sunol, CA

Chevron Pipeline Co. 2811 Hayes Road Houston TX 77082

Collected: 11/29/2005 09:15 by GW Submitted: 11/30/2005 09:25 Reported: 12/05/2005 at 15:23

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Unit	Result	MDL	Unit	DF
07199	TO-14A VOA Extended List								
07238	Benzene	71-43-2	69,000.	2,000.	ppb(v)	220,000.	6,400.	ug/m3	10000
07250	Toluene	108-88-3	510,000.	2,000.	ppb(v)	1,900,00	7,500.	ug/m3	10000
07261	Ethylbenzene	100-41-4	43,000.	2,000.	ppb(v)	190,000.	8,700.	ug/m3	10000
07262	m/p-Xylene	1330-20-7	170,000.	2,000.	ppb(v)	740,000.	8,700.	ug/m3	10000
07263	o-Xylene	95-47-6	58,000.	2,000.	ppb(v)	250,000.	8,700.	ug/m3	10000
	The reporting limits for the GC,	MS volatile o	compounds w	ere raised					
	because sample dilution was nece	essary to brin	ng target c	ompounds i	nto the				
	calibration range of the system								
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	2,800.	2.0	ppm(v)	9,900.	7.0	mg/m3	2

State of California Lab Certification No. 2116

 \mathtt{MDL} = Method Detection Limit

Laboratory Chronicle

CAT					Dilution	
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07199	TO-14A VOA Extended List	EPA TO14A	1	12/02/2005 07:46	Jeffrey B Smith	10000
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	11/30/2005 12:48	David I Ressler	2

Sample Number: AQ 4658437

SVE-2S-11/29/05 Summa Can# 0096 Grab Air

Sample

Sunol, CA

Chevron Pipeline Co. 2811 Hayes Road Houston TX 77082

Account: 11875

Collected: 11/29/2005 09:20 by GW Submitted: 11/30/2005 09:25 Reported: 12/05/2005 at 15:23

07199 TO-14A VOA Extended List

Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

Sample Number: AQ 4658437

07238	Benzene	71-43-2	510.	10.	ppb(v)	1,600.	32.	ug/m3	50
07250	Toluene	108-88-3	3,100.	10.	ppb(v)	12,000.	38.	ug/m3	50
07261	Ethylbenzene	100-41-4	280.	10.	ppb(v)	1,200.	43.	ug/m3	50
07262	m/p-Xylene	1330-20-7	2,700.	10.	ppb(v)	12,000.	43.	ug/m3	50
07263	o-Xylene	95-47-6	1,200.	10.	ppb(v)	5,200.	43.	ug/m3	50

The reporting limits for the GC/MS volatile compounds were raised

because sample dilution was necessary to bring target compounds into the

calibration range of the system.

07548 >C4-C10 Hydrocarbons in Air

07551 >C4-C10 Hydrocarbons hexane n.a. 17. 2.0 ppm(v) 61. 7.0 mg/m3

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

CAT			-		Dilution	
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07199	TO-14A VOA Extended List	EPA TO14A	1	12/01/2005 16:22	Jeffrey B Smith	50
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	11/30/2005 13:22	David I Ressler	2

Sample Number: AQ 4658438

SVE-4D-11/29/05 Summa Can# 0145 Grab Air

Sample

Sunol, CA

Chevron Pipeline Co. 2811 Hayes Road Houston TX 77082

Account: 11875

Collected: 11/29/2005 09:25 by GW Submitted: 11/30/2005 09:25 Reported: 12/05/2005 at 15:23

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Unit	As Received Final Result	MDL	Unit	DF
07199	TO-14A VOA Extended List								
07238 07250 07261 07262	Benzene Toluene Ethylbenzene m/p-Xylene	71-43-2 108-88-3 100-41-4 1330-20-7	4.0 90. 25. 150.	0.20 0.20 0.20 0.20	ppb(v) ppb(v) ppb(v) ppb(v)	13. 340. 110. 650.	0.64 0.75 0.87 0.87	ug/m3 ug/m3 ug/m3 ug/m3	1 1 1
07263 07548	o-Xylene >C4-C10 Hydrocarbons in Air	95-47-6	77.	0.20	ppb(v)	330.	0.87	ug/m3	1
07551	>C4-C10 Hydrocarbons hexane	n.a.	N.D.	2.0	ppm(v)	N.D.	7.0	mg/m3	2

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

CAT Analysis Dilution Trial# Date and Time No. Analysis Name Method EPA TO14A Factor Analyst 07199 TO-14A VOA Extended List 1 12/01/2005 18:29 Jeffrey B Smith 1 1 11/30/2005 13:58 07548 >C4-C10 Hydrocarbons in Air EPA 25 modified David I Ressler 2

Sample Number: AQ 4658439

SVE-3S-11/29/05 Summa Can# 0410 Grab Air

Sample Sunol, CA

Chevron Pipeline Co. 2811 Hayes Road

Houston TX 77082

Account: 11875

Collected: 11/29/2005 09:30 by GW Submitted: 11/30/2005 09:25 Reported: 12/05/2005 at 15:23

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Unit	Result	MDL	Unit	DF
07199	TO-14A VOA Extended List								
07238	Benzene	71-43-2	150,000.	2,000.	ppb(v)	480,000.	6,400.	ug/m3	10000
07250	Toluene	108-88-3	980,000.	2,000.	ppb(v)	3,700,00	7,500.	ug/m3	10000
07261	Ethylbenzene	100-41-4	110,000.	2,000.	ppb(v)	480,000.	8,700.	ug/m3	10000
07262	m/p-Xylene	1330-20-7	390,000.	2,000.	ppb(v)	1,700,00 0.	8,700.	ug/m3	10000
07263	o-Xylene	95-47-6	140,000.	2,000.	ppb(v)	610,000.	8,700.	ug/m3	10000
	The reporting limits for the GC/	MS volatile c	ompounds w	ere raised					
	because sample dilution was nece	-	ıg target c	ompounds i	nto the				
	calibration range of the system.								
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	4,400.	2.0	ppm(v)	16,000.	7.0	mg/m3	2

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

CAT					Dilution		
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor	
07199	TO-14A VOA Extended List	EPA TO14A	1	12/02/2005 08:27	Jeffrey B Smith	10000	
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	11/30/2005 14:33	David I Ressler	2	

Sample Number: AQ 4658440

Influent-11/29/05 Tedlar Bag Grab Air Sample

Sunol, CA

Chevron Pipeline Co. 2811 Hayes Road Houston TX 77082

Account: 11875

Collected: 11/29/2005 09:40 by GW Submitted: 11/30/2005 09:25 Reported: 12/05/2005 at 15:23

As As Received Received

Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

Sample Number: AQ 4658440

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Unit	Final Result	MDL	Unit	DF
0754	8 >C4-C10 Hydrocarbons in Air								
0755	>C4-C10 Hydrocarbons hexane	n.a.	210.	1.0	ppm(v)	740.	3.5	mg/m3	1
0786	9 TO-14A VOA Ext. List Tedlar								
0723	8 Benzene	71-43-2	2,300.	50.	ppb(v)	7,300.	160.	ug/m3	250
0725	0 Toluene	108-88-3	16,000.	50.	ppb(v)	60,000.	190.	ug/m3	250
0726	1 Ethylbenzene	100-41-4	1,600.	50.	ppb(v)	6,900.	220.	ug/m3	250
0726	2 m/p-Xylene	1330-20-7	6,100.	50.	ppb(v)	26,000.	220.	ug/m3	250
0726	3 o-Xylene	95-47-6	2,100.	50.	ppb(v)	9,100.	220.	ug/m3	250

The sample was collected in a Tedlar bag which is not the container referenced in the EPA method.

The reporting limits for the GC/MS volatile compounds were raised

because sample dilution was necessary to bring target compounds into the calibration range of the system.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

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CAT			_		Dilution	
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	11/30/2005 15:36	David I Ressler	1
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/01/2005 20:35	Jeffrey B Smith	250



Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	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)	Ī	liter(s)
m3	cubic meter(s)	ul	microliter(s)

- < less than The number following the sign is the <u>limit of quantitation</u>, 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		Inorganic Qualifiers
Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	Ε	Estimated due to interference
С	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
Р	Concentration difference between primary and	W	Post digestion spike out of control limits
	confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA < 0.995
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope 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.

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ANALYTICAL RESULTS

Prepared for:

Chevron Pipeline Co. 2811 Hayes Road Houston TX 77082

281-596-3564

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 970067. Samples arrived at the laboratory on Wednesday, December 07, 2005. The PO# for this group is 99011184.

<u>Client Description</u> <u>Lancaster Labs Number</u>

SVE-2S-120605 Tedlar Bag Grab Air Sample
SVE-3S-120605 Tedlar Bag Grab Air Sample
4664006

ELECTRONIC Chevron Pipeline Co. Attn: Angela Liang

COPY TO

ELECTRONIC Chevron Pipeline Co. Attn: Joe Morgan

COPY TO

ELECTRONIC Chevron Pipeline Co Attn: April Giangerelli

COPY TO



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Questions? Contact your Client Services Representative Heidi L Ortenzi at (717) 656-2300

Respectfully Submitted,

Rachel R. Cochis Group Leader

Kachel & Cockis



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4664005

SVE-2S-120605 Tedlar Bag Grab Air Sample Calaveras Rd. - Sunol, CA

Collected:12/06/2005 08:05 by GW Account Number: 11875

 Submitted: 12/07/2005 09:40
 Chevron Pipeline Co.

 Reported: 12/15/2005 at 17:51
 2811 Hayes Road

 Discard: 01/15/2006
 Houston TX 77082

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	390.	1.0	ppm(v)	1,400.	3.5	mg/m3	1
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	1,600.	20.	ppb(v)	5,100.	64.	ug/m3	100
07250	Toluene	108-88-3	33,000.	200.	ppb(v)	120,000.	750.	ug/m3	1000
07261	Ethylbenzene	100-41-4	2,100.	20.	ppb(v)	9,100.	87.	ug/m3	100
07262	m/p-Xylene	1330-20-7	12,000.	20.	ppb(v)	52,000.	87.	ug/m3	100
07263	o-Xylene	95-47-6	4,500.	20.	ppb(v)	20,000.	87.	ug/m3	100

The sample was collected in a Tedlar bag which is not the container referenced in the EPA method. The reporting limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the

calibration range of the system.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
075	48 >C4-C10 Hydrocarbons in Air	EPA 25 modified	1	12/07/2005 16:45	David I Ressler	1
078	69 TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/08/2005 07:16	Douglas Graham	1000
078	69 TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/08/2005 07:57	Douglas Graham	100



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4664006

SVE-3S-120605 Tedlar Bag Grab Air Sample Calaveras Rd. - Sunol, CA

Collected:12/06/2005 07:55 by GW Account Number: 11875

 Submitted: 12/07/2005 09:40
 Chevron Pipeline Co.

 Reported: 12/15/2005 at 17:51
 2811 Hayes Road

 Discard: 01/15/2006
 Houston TX 77082

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
0754	8 >C4-C10 Hydrocarbons in Air								
0755	>C4-C10 Hydrocarbons hexane	n.a.	1,900.	10.	ppm(v)	6,700.	35.	mg/m3	10
0786	9 TO-14A VOA Ext. List Tedlar								
0723	8 Benzene	71-43-2	120,000.	1,000.	ppb(v)	380,000.	3,200.	ug/m3	5000
0725	0 Toluene	108-88-3	550,000.	10,000.	ppb(v)	2,100,00 0.	38,000.	ug/m3	50000
0726	1 Ethylbenzene	100-41-4	96,000.	1,000.	ppb(v)	420,000.	4,300.	ug/m3	5000
0726	2 m/p-Xylene	1330-20-7	330,000.	1,000.	ppb(v)	1,400,00	4,300.	ug/m3	5000
0726	3 o-Xylene	95-47-6	110,000.	1,000.	ppb(v)	480,000.	4,300.	ug/m3	5000
	The semale was sallested in a	madlass bass seld		ha					

The sample was collected in a Tedlar bag which is not the container referenced in the EPA method. The reporting limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT			1	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	12/12/2005 20:20	Douglas Graham	10
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/08/2005 08:39	Douglas Graham	50000
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/08/2005 09:21	Douglas Graham	5000



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Page 1 of 1

Quality Control Summary

Client Name: Chevron Pipeline Co. Group Number: 970067

Reported: 12/15/05 at 05:51 PM

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 <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: A0534230A Benzene	Sample nu N.D.	mber(s): 0.20	4664005-46 ppb(v)	64006 98		76-145		
Toluene Ethylbenzene	N.D. N.D.	0.20	ppb(v)	97 97		62-152 60-142		
m/p-Xylene o-Xylene	N.D. N.D.	0.20	ppb(v)	97 101		58-152 63-156		
Batch number: M053421ZA >C4-C10 Hydrocarbons hexane	Sample nu N.D.	mber(s): 1.0	4664005 ppm(v)					
Batch number: M053471ZB >C4-C10 Hydrocarbons hexane	Sample nu N.D.	mber(s): 1.0	4664006 ppm(v)					

*- 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.

DF

Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

Sample Number: AQ 4664002

Account: 11875

SVE-ID-120605 Tedlar Bag Grab Air Sample

Calaveras Rd. - Sunol, CA

Chevron Pipeline Co. 2811 Hayes Road Houston TX 77082

Collected: 12/06/2005 08:10 by GW Submitted: 12/07/2005 09:40 Reported: 12/15/2005 at 16:53

		As Received Final			As Received Final			
Analysis Name	CAS Number	Result	MDL	Unit	Result	MDL	Unit	DF
>C4-C10 Hydrocarbons in Air								
>C4-C10 Hydrocarbons hexane	n.a.	3,000.	1.0	ppm(v)	11,000.	3.5	mg/m3	1
TO-14A VOA Ext. List Tedlar								
Benzene	71-43-2	20,000.	100.	ppb(v)	64,000.	320.	ug/m3	500
Toluene	108-88-3	130,000.	1,000.	ppb(v)	490,000.	3,800.	ug/m3	5000
Ethylbenzene	100-41-4	13,000.	100.	ppb(v)	56,000.	430.	ug/m3	500
m/p-Xylene	1330-20-7	78,000.	100.	ppb(v)	340,000.	430.	ug/m3	500
o-Xylene	95-47-6	24,000.	100.	ppb (v)	100,000.	430.	ug/m3	500
	>C4-C10 Hydrocarbons in Air >C4-C10 Hydrocarbons hexane T0-14A VOA Ext. List Tedlar Benzene Toluene Ethylbenzene m/p-Xylene	>C4-C10 Hydrocarbons in Air >C4-C10 Hydrocarbons hexane n.a. T0-14A VOA Ext. List Tedlar Benzene 71-43-2 Toluene 108-88-3 Ethylbenzene 100-41-4 m/p-Xylene 1330-20-7	Analysis Name CAS Number Received Final Result >C4-C10 Hydrocarbons in Air >C4-C10 Hydrocarbons hexane n.a. 3,000. T0-14A VOA Ext. List Tedlar Benzene 71-43-2 20,000. Toluene 108-88-3 130,000. Ethylbenzene 100-41-4 13,000. m/p-Xylene 1330-20-7 78,000.	Analysis Name CAS Number Result MDL >C4-C10 Hydrocarbons in Air >C4-C10 Hydrocarbons hexane n.a. 3,000. 1.0 T0-14A VOA Ext. List Tedlar Benzene 71-43-2 20,000. 100. Toluene 108-88-3 130,000. 1,000. Ethylbenzene 100-41-4 13,000. 100. m/p-Xylene 1330-20-7 78,000. 100.	Analysis Name CAS Number Result MDL Unit >C4-C10 Hydrocarbons in Air >C4-C10 Hydrocarbons hexane n.a. 3,000. 1.0 ppm(v) T0-14A VOA Ext. List Tedlar Benzene 71-43-2 20,000. 100. ppb(v) Toluene 108-88-3 130,000. 1,000. ppb(v) Ethylbenzene 100-41-4 13,000. 100. ppb(v) m/p-Xylene 1330-20-7 78,000. 100. ppb(v)	Received Final Result MDL Unit Result >C4-C10 Hydrocarbons in Air >C4-C10 Hydrocarbons hexane n.a. 3,000. 1.0 ppm(v) 11,000. T0-14A VOA Ext. List Tedlar Benzene 71-43-2 20,000. 100. ppb(v) 64,000. Toluene 108-88-3 130,000. 1,000. ppb(v) 490,000. Ethylbenzene 100-41-4 13,000. 100. ppb(v) 56,000. m/p-Xylene 1330-20-7 78,000. 100. ppb(v) 340,000.	Received Final Result MDL Unit Result MDL SC4-C10 Hydrocarbons in Air >C4-C10 Hydrocarbons hexane n.a. 3,000. 1.0 ppm(v) 11,000. 3.5 T0-14A VOA Ext. List Tedlar Benzene 71-43-2 20,000. 100. ppb(v) 64,000. 320. Toluene 108-88-3 130,000. 1,000. ppb(v) 490,000. 3,800. Ethylbenzene 100-41-4 13,000. 100. ppb(v) 56,000. 430. m/p-Xylene 1330-20-7 78,000. 100. ppb(v) 340,000. 430.	Received Final Result MDL Unit Result MDL Unit Result MDL Unit Result MDL Unit Result MDL Unit Result MDL Unit Result MDL Unit Result MDL Unit Result MDL Unit Result MDL Unit SC4-C10 Hydrocarbons in Air SC4-C10 Hydrocarbons hexane n.a. 3,000. 1.0 ppm(v) 11,000. 3.5 mg/m3 TO-14A VOA Ext. List Tedlar Benzene 71-43-2 20,000. 100. ppb(v) 64,000. 320. ug/m3 Toluene 108-88-3 130,000. 1,000. ppb(v) 490,000. 3,800. ug/m3 Ethylbenzene 100-41-4 13,000. 100. ppb(v) 56,000. 430. ug/m3 m/p-Xylene 1330-20-7 78,000. 100. ppb(v) 340,000. 430. ug/m3

The sample was collected in a Tedlar bag which is not the container referenced in the EPA method. The reporting limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

CAT			_	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	12/07/2005 15:14	David I Ressler	1
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/08/2005 03:07	Douglas Graham	5000
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/08/2005 03:48	Douglas Graham	500

Sample Number: AQ 4664003

SVE-4D-120605 Tedlar Bag Grab Air Sample

Calaveras Rd. - Sunol, CA

Chevron Pipeline Co. 2811 Hayes Road Houston TX 77082

Account: 11875

Collected: 12/06/2005 08:00 by GW Submitted: 12/07/2005 09:40 Reported: 12/15/2005 at 16:53

As As Received Received CAT Final Final Result MDL No. Analysis Name CAS Number Unit Result MDL Unit

07548 >C4-C10 Hydrocarbons in Air

Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

Sample Number: AQ 4664003

07551	>C4-C10 Hydrocarbons hexane	n.a.	410.	1.0	ppm(v)	1,400.	3.5	mg/m3	1
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	52,000.	500.	ppb(v)	170,000.	1,600.	ug/m3	2500
07250	Toluene	108-88-3	1,000,00	5,000.	ppb(v)	3,800,00	19,000.	ug/m3	25000
07261	Ethylbenzene	100-41-4	34,000.	500.	ppb(v)	150,000.	2,200.	ug/m3	2500
07262	m/p-Xylene	1330-20-7	140,000.	500.	ppb(v)	610,000.	2,200.	ug/m3	2500
07263	o-Xylene	95-47-6	46,000.	500.	ppb(v)	200,000.	2,200.	ug/m3	2500

The sample was collected in a Tedlar bag which is not the container referenced in the EPA method. The reporting limits for the GC/MS volatile compounds were raised

because sample dilution was necessary to bring target compounds into the calibration range of the system.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

CAT			2	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	12/12/2005 19:50	Douglas Graham	1
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/08/2005 04:30	Douglas Graham	25000
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/08/2005 05:11	Douglas Graham	2500

Sample Number: AQ 4664004

Influent-120605 Tedlar Bag Grab Air Sample

Calaveras Rd. - Sunol, CA

Chevron Pipeline Co. 2811 Hayes Road Houston TX 77082

Account: 11875

Collected: 12/06/2005 08:40 by GW Submitted: 12/07/2005 09:40 Reported: 12/15/2005 at 16:53

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Unit	Result	MDL	Unit	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	2,100.	1.0	ppm(v)	7,400.	3.5	mg/m3	1
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	23,000.	100.	ppb(v)	73,000.	320.	ug/m3	500
07250	Toluene	108-88-3	160,000.	1,000.	ppb (v)	600,000.	3,800.	ug/m3	5000
07261	Ethylbenzene	100-41-4	8,500.	100.	ppb (v)	37,000.	430.	ug/m3	500
07262	m/p-Xylene	1330-20-7	36,000.	100.	ppb (v)	160,000.	430.	ug/m3	500
07263	o-Xylene	95-47-6	11,000.	100.	ppb (v)	48,000.	430.	ug/m3	500
	The sample was collected in a Te	edlar bag whic	ch is not t	he contain	er				

The sample was collected in a Tedlar bag which is not the container referenced in the EPA method. The reporting limits for the GC/MS volatile compounds were raised

The reporting limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.

Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

Sample Number: AQ 4664004

State of California Lab Certification No. 2116

MDL = Method Detection Limit

			Haboracory	CILLOIL	LCIE						
C	'AT		-	Analysis							
N	o.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor				
0	7548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	12/07/2005 16:15	David I Ressler	1				
0	7869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/08/2005 05:53	Douglas Graham	5000				
0	7869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/08/2005 06:34	Douglas Graham	500				

Chevron California Region Analysis Request/Chain of Custody

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Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	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)	Ī	liter(s)
m3	cubic meter(s)	ul	microliter(s)

- < less than The number following the sign is the <u>limit of quantitation</u>, 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		Inorganic Qualifiers
Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	Ε	Estimated due to interference
С	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
Р	Concentration difference between primary and	W	Post digestion spike out of control limits
	confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA < 0.995
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope 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.

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ANALYTICAL RESULTS

Prepared for:

Chevron Pipeline Co. 2811 Hayes Road Houston TX 77082

281-596-3564

Prepared by:

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

SAMPLE GROUP

COPY TO

The sample group for this submittal is 971005. Samples arrived at the laboratory on Wednesday, December 14, 2005. The PO# for this group is 99011184.

Client Description	<u>Lancaster Labs Number</u>
SVE-1D-12/13/05 Tedlar Bag Grab Air Sample	4669523
SVE-2S-12/13/05 Tedlar Bag Grab Air Sample	4669524
SVE-3S-12/13/05 Tedlar Bag Grab Air Sample	4669525
SVE-4D-12/13/05 Tedlar Bag Grab Air Sample	4669526
Influent-12/13/05 Tedlar Bag Grab Air Sample	4669527

ELECTRONIC	Chevron Pipeline Co.	Attn: Angela Liang
COPY TO		
ELECTRONIC	Chevron Pipeline Co.	Attn: Joe Morgan



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Questions? Contact your Client Services Representative Heidi L Ortenzi at (717) 656-2300

Respectfully Submitted,

Rachel R. Cochis Group Leader

Kachel & Cockis



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4669523

SVE-1D-12/13/05 Tedlar Bag Grab Air Sample Calavares Rd., - Sunol, CA

Collected:12/13/2005 09:20 by GW Account Number: 11875

Submitted: 12/14/2005 09:25 Chevron Pipeline Co. Reported: 12/19/2005 at 15:10 2811 Hayes Road Houston TX 77082 Discard: 01/19/2006

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	2,900.	1.0	ppm(v)	10,000.	3.5	mg/m3	1
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	18,000.	50.	ppb(v)	58,000.	160.	ug/m3	250
07250	Toluene	108-88-3	95,000.	500.	ppb(v)	360,000.	1,900.	ug/m3	2500
07261	Ethylbenzene	100-41-4	8,400.	50.	ppb(v)	36,000.	220.	ug/m3	250
07262	m/p-Xylene	1330-20-7	44,000.	50.	ppb(v)	190,000.	220.	ug/m3	250
07263	o-Xylene	95-47-6	14,000.	50.	ppb (v)	61,000.	220.	ug/m3	250

The sample was collected in a Tedlar bag which is not the container referenced in the $\ensuremath{\mathsf{EPA}}$ method. The reporting limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the

calibration range of the system.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	12/14/2005 22:16	Douglas Graham	1
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/15/2005 14:42	Jeffrey B Smith	2500
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/15/2005 15:23	Jeffrey B Smith	250



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4669524

SVE-2S-12/13/05 Tedlar Bag Grab Air Sample Calavares Rd., - Sunol, CA

Collected:12/13/2005 09:15 by GW Account Number: 11875

 Submitted: 12/14/2005 09:25
 Chevron Pipeline Co.

 Reported: 12/19/2005 at 15:10
 2811 Hayes Road

 Discard: 01/19/2006
 Houston TX 77082

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07548	3 >C4-C10 Hydrocarbons in Air								
0755	1 >C4-C10 Hydrocarbons hexane	n.a.	19.	1.0	ppm(v)	67.	3.5	mg/m3	1
07869	9 TO-14A VOA Ext. List Tedlar								
07238	B Benzene	71-43-2	66.	1.0	ppb(v)	210.	3.2	ug/m3	5
0725) Toluene	108-88-3	380.	2.4	ppb(v)	1,400.	9.0	ug/m3	12
07263	l Ethylbenzene	100-41-4	120.	1.0	ppb(v)	520.	4.3	ug/m3	5
07262	2 m/p-Xylene	1330-20-7	810.	1.0	ppb(v)	3,500.	4.3	ug/m3	5
07263	3 o-Xylene	95-47-6	330.	1.0	ppb(v)	1,400.	4.3	ug/m3	5

The sample was collected in a Tedlar bag which is not the container referenced in the EPA method. The reporting limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	12/14/2005 22:46	Douglas Graham	1
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/15/2005 16:04	Jeffrey B Smith	5
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/16/2005 12:04	Jeffrey B Smith	12



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4669525

SVE-3S-12/13/05 Tedlar Bag Grab Air Sample Calavares Rd., - Sunol, CA

Collected:12/13/2005 09:05 by GW Account Number: 11875

 Submitted: 12/14/2005 09:25
 Chevron Pipeline Co.

 Reported: 12/19/2005 at 15:10
 2811 Hayes Road

 Discard: 01/19/2006
 Houston TX 77082

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	5,500.	1.0	ppm(v)	19,000.	3.5	mg/m3	1
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	140,000.	1,000.	ppb(v)	450,000.	3,200.	ug/m3	5000
07250	Toluene	108-88-3	500,000.	2,500.	ppb(v)	1,900,00 0.	9,400.	ug/m3	12500
07261	Ethylbenzene	100-41-4	48,000.	1,000.	ppb (v)	210,000.	4,300.	ug/m3	5000
07262	m/p-Xylene	1330-20-7	130,000.	1,000.	ppb(v)	560,000.	4,300.	ug/m3	5000
07263	o-Xylene	95-47-6	36,000.	1,000.	ppb(v)	160,000.	4,300.	ug/m3	5000

The sample was collected in a Tedlar bag which is not the container referenced in the EPA method. The reporting limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the

calibration range of the system.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT		Analysis	Dilution			
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	12/14/2005 23:17	Douglas Graham	1
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/15/2005 16:46	Jeffrey B Smith	5000
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/16/2005 12:47	Jeffrey B Smith	12500



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4669526

SVE-4D-12/13/05 Tedlar Bag Grab Air Sample Calavares Rd., - Sunol, CA

Collected:12/13/2005 09:10 by GW Account Number: 11875

 Submitted: 12/14/2005 09:25
 Chevron Pipeline Co.

 Reported: 12/19/2005 at 15:10
 2811 Hayes Road

 Discard: 01/19/2006
 Houston TX 77082

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	3,200.	1.0	ppm(v)	11,000.	3.5	mg/m3	1
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	34,000.	500.	ppb(v)	110,000.	1,600.	ug/m3	2500
07250	Toluene	108-88-3	180,000.	1,300.	ppb(v)	680,000.	4,700.	ug/m3	6250
07261	Ethylbenzene	100-41-4	83,000.	500.	ppb(v)	360,000.	2,200.	ug/m3	2500
07262	m/p-Xylene	1330-20-7	310,000.	500.	ppb(v)	1,300,00	2,200.	ug/m3	2500
07263	o-Xylene	95-47-6	110,000.	500.	ppb(v)	480,000.	2,200.	ug/m3	2500

The sample was collected in a Tedlar bag which is not the container referenced in the EPA method. The reporting limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	12/14/2005 23:47	Douglas Graham	1
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/15/2005 18:09	Jeffrey B Smith	2500
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/16/2005 13:28	Jeffrey B Smith	6250



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4669527

Influent-12/13/05 Tedlar Bag Grab Air Sample
Calavares Rd., - Sunol, CA

Collected:12/13/2005 09:25 by GW Account Number: 11875

 Submitted: 12/14/2005 09:25
 Chevron Pipeline Co.

 Reported: 12/19/2005 at 15:10
 2811 Hayes Road

 Discard: 01/19/2006
 Houston TX 77082

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	2,900.	1.0	ppm(v)	10,000.	3.5	mg/m3	1
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	55,000.	500.	ppb(v)	180,000.	1,600.	ug/m3	2500
07250	Toluene	108-88-3	170,000.	1,300.	ppb(v)	640,000.	4,700.	ug/m3	6250
07261	Ethylbenzene	100-41-4	54,000.	500.	ppb(v)	230,000.	2,200.	ug/m3	2500
07262	m/p-Xylene	1330-20-7	210,000.	500.	ppb(v)	910,000.	2,200.	ug/m3	2500
07263	o-Xylene	95-47-6	75,000.	500.	ppb(v)	330,000.	2,200.	ug/m3	2500

The sample was collected in a Tedlar bag which is not the container referenced in the EPA method. The reporting limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	12/15/2005 00:18	Douglas Graham	1
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/15/2005 19:33	Jeffrey B Smith	2500
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/16/2005 14:10	Jeffrey B Smith	6250



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Page 1 of 1

Quality Control Summary

Client Name: Chevron Pipeline Co. Group Number: 971005

Reported: 12/19/05 at 03:10 PM

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 <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: A0534930A	Sample nu	mber(s):	4669523-46	69527				
Benzene	N.D.	0.20	ppb(v)	103		76-145		
Toluene	N.D.	0.20	ppb(v)	112		62-152		
Ethylbenzene	N.D.	0.20	ppb(v)	108		60-142		
m/p-Xylene	N.D.	0.20	ppb(v)	105		58-152		
o-Xylene	N.D.	0.20	ppb(v)	112		63-156		
Batch number: M053491ZB >C4-C10 Hydrocarbons hexane	Sample nu N.D.	mber(s):	4669523-46 ppm(v)	69527				

*- 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



Acct. #: 11875 Sample #: 4 0 97 23 - 27 SCR#:

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Facility #: Chev	m Pix	peline						Τ						Р	resen	vatio	n Co	des				Preserva	tive Cod	es
Site Address:	averer	RA, S	und (LA.							-	\vdash	Ω.	\dashv	_	╂	 			$\vdash \vdash$			T = Thios B = NaOl	
Chevron PM:		_			ant:					10			Gel Cleanup								/	S = H ₂ SO ₄		
Consultant/Office:	URS-	Ocklan	.2.							iner]	Gel							/	/	☐ J value reporti	_	
Consultant Prj. Mgr.:	Jo.	Morgan								onta] 8021		Silica			,	00			f		☐ Must meet low possible for 82		
Consultant Phone #:	510-8			Fax#	510-8	74-3268				ofC	8260	<u></u>	<u>ا</u>		ates 7421 □	10-0L	70-18			/		8021 MTBE Con	•	
Sampler: Grey White						0	Jper	E 82	ဥ	<u> </u>	_	Oxygenates 7420 □ 742	۲ ۲						☐ Confirm highe	est hit by 82	260			
Service Order #: Non SAR:						osit	N	ME	15 MC	15 MC	scar	xyger	<u>ا</u> ا		,				☐ Confirm all hit					
Field Point Name	Matrix	Repeat	Top	Voor I	Month Day	Time	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE	TPH 8015 MOD GRO	TPH 8015 MOD DRO	8260 full scan	Oxygenat	3.TEX	17					□Runoxy □Runoxy		
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Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories Where quality is a science.				A	Acct. #:			For Lancaster Laboratories use only Sample #:SCR#:									200	17						
								-					A	naly	/ses	Rec	ques	ted						
Facility #: Cl	シェンシ	Pipeline					Τ						F	res	erva	ition	Coc	les				Preservat	ive Cod	es
Site Address:	lanera	RN, S	-									dnue									1	N = HNO ₃	T = Thios B = NaOl O = Othe	Н
Chevron PM:				Consultant:		·			ers	_		Gel Cleanup										☐ J value reportir		
Consultant/Office:	7	- Oakland	.					1	Containers	8021		Silica G				T0-14	21-			/		☐ Must meet low	est detect	ion limits
Consultant Prj. Mgr.: Toe Morgan						ပြီ			S				O	0			/		possible for 82	60 compo	unds			
Consultant Prone #: 510-893-3600 Fax #: 510-874-3268			8			r of	8260	GRO	စ္တ			72	+	-					8021 MTBE Conf					
Sampler:G	يع لمالم	ile						ē	nge		8	8	c	Oxygenates	7	ا ا	لـ ا		/			Confirm highes	•	260
Service Order #:	·		_□No	n SAR:				osi	Ž	Ĕ	15 M	15 M	sca)xyge	2	ŵ		' · Y	<i>'</i>			☐ Confirm all hits ☐ Run oxy's		act bit
Field		Repeat	Тор	l	Time	New	Grab	Composite	Total Number of	BTEX + MTBE	TPH 8015 MOD GRO	TPH 8015 MOD DRO	260 fu		-ead 7420 □ 7421 □	BTEX	TPH-9					Run oxy's		
Point Name SVE-4D -12/13/05	A	Sample	Depth	Year Month Day	Oquio	Fleid Pi	×		 	 	F	F	80		3	X	*					Comments / R		
Influent-12/12/05	A	<u> </u>	·	· · · · · · · · · · · · · · · · · · ·	09.72	 	×			╁	╁┈				-	¥	x					72 Hr		
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QC Summary To	voe I – Fu	ılt		-																		(#2)/on 10	}	—

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

Relinquished by Commercial Carrier:

Temperature Upon Receipt

UPS

Type I - Full

☐ Coelt Deliverable not needed

Type VI (Raw Data)

WIP (RWQCB)

Disk

3460 Rev. 10/04/01

Custody Seals (ntact?

Yes



Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	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)	Ī	liter(s)
m3	cubic meter(s)	ul	microliter(s)

- < less than The number following the sign is the <u>limit of quantitation</u>, 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		Inorganic Qualifiers
Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	Ε	Estimated due to interference
С	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
Р	Concentration difference between primary and	W	Post digestion spike out of control limits
	confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA < 0.995
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope 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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

Sample Number: AQ 4678459

Account: 11875

SVE-1D Grab Tedlar Bag Air Sample

Sunol, CA

Chevron Pipeline Co. 2811 Hayes Road Houston TX 77082

Collected: 12/22/2005 07:35 by GW Submitted: 12/23/2005 10:15 Reported: 12/29/2005 at 15:28

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Unit	Result	MDL	Unit	DF
07548	>C4-C10 Hydrocarbons in Air								
07549	>C4-C10 Hydrocarbons methane	n.a.	25,000.	10.	ppm(v)	16,000.	6.6	mg/m3	10
07550	>C4-C10 Hydrocarbons propane	n.a.	7,600.	10.	ppm(v)	14,000.	18.	mg/m3	10
07551	>C4-C10 Hydrocarbons hexane	n.a.	4,100.	10.	ppm(v)	14,000.	35.	mg/m3	10
07869	TO-14A VOA Ext. List Tedlar								
07225	Methyl t-Butyl Ether	1634-04-4	N.D.	100.	ppb(v)	N.D.	360.	ug/m3	500
07238	Benzene	71-43-2	47,000.	100.	ppb(v)	150,000.	320.	ug/m3	500
07250	Toluene	108-88-3	290,000.	1,000.	ppb(v)	1,100,00	3,800.	ug/m3	5000
07261	Ethylbenzene	100-41-4	27,000.	100.	ppb(v)	120,000.	430.	ug/m3	500
07262	m/p-Xylene	1330-20-7	96,000.	1,000.	ppb (v)	420,000.	4,300.	ug/m3	5000
07263	o-Xylene	95-47-6	34,000.	100.	ppb (v)	150,000.	430.	ug/m3	500

The sample was collected in a Tedlar bag which is not the container referenced in the EPA method.

The reporting limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the

calibration range of the system.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory	Chronicle
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		Laboratory	Chron	rcie		
CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	12/27/2005 13:19	George M Main	10
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/27/2005 11:24	George M Main	5000
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/27/2005 12:16	George M Main	500

Sample Number: AQ 4678460

SVE-2S Grab Tedlar Bag Air Sample

Sunol, CA

Chevron Pipeline Co.

2811 Hayes Road Houston TX 77082

Account: 11875

Collected: 12/22/2005 07:30 by GW Submitted: 12/23/2005 10:15 Reported: 12/29/2005 at 15:29

> As Received

As Received

Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

Sample Number: AQ 4678460

CAT				Final			Final					
	No.	Analysis Name	CAS Number	Result	MDL	Unit	Result	MDL	Unit	DF		
	07548	>C4-C10 Hydrocarbons in Air										
	07549	>C4-C10 Hydrocarbons methane	n.a.	500.	1.0	ppm(v)	330.	0.66	mg/m3	1		
	07550	>C4-C10 Hydrocarbons propane	n.a.	150.	1.0	ppm(v)	270.	1.8	mg/m3	1		
	07551	>C4-C10 Hydrocarbons hexane	n.a.	83.	1.0	ppm(v)	290.	3.5	mg/m3	1		
	07869	TO-14A VOA Ext. List Tedlar										
	07225	Methyl t-Butyl Ether	1634-04-4	N.D.	5.0	ppb(v)	N.D.	18.	ug/m3	25		
	07238	Benzene	71-43-2	740.	5.0	ppb(v)	2,400.	16.	ug/m3	25		
	07250	Toluene	108-88-3	5,900.	50.	ppb(v)	22,000.	190.	ug/m3	250		
	07261	Ethylbenzene	100-41-4	1,900.	5.0	ppb(v)	8,300.	22.	ug/m3	25		
	07262	m/p-Xylene	1330-20-7	5,400.	50.	ppb(v)	23,000.	220.	ug/m3	250		
	07263	o-Xylene	95-47-6	2,300.	50.	ppb(v)	10,000.	220.	ug/m3	250		

The sample was collected in a Tedlar bag which is not the container referenced in the ${\tt EPA}$ method.

The reporting limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

		<u> </u>	CILLOIL			
CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	12/27/2005 09:24	George M Main	1
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/27/2005 13:40	George M Main	25
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/28/2005 11:52	George M Main	250

Sample Number: AQ 4678461

SVE-3S Grab Tedlar Bag Air Sample

Sunol, CA

Chevron Pipeline Co. 2811 Hayes Road Houston TX 77082

Account: 11875

Collected: 12/22/2005 07:20 by GW Submitted: 12/23/2005 10:15 Reported: 12/29/2005 at 15:29

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Unit	Result	MDL	Unit	DF
07548	>C4-C10 Hydrocarbons in Air								
07549	>C4-C10 Hydrocarbons methane	n.a.	56,000.	10.	ppm(v)	37,000.	6.6	mg/m3	10
07550	>C4-C10 Hydrocarbons propane	n.a.	18,000.	10.	ppm(v)	32,000.	18.	mg/m3	10
07551	>C4-C10 Hydrocarbons hexane	n.a.	9,400.	10.	ppm(v)	33,000.	35.	mg/m3	10
07869	TO-14A VOA Ext. List Tedlar								
07225	Methyl t-Butyl Ether	1634-04-4	N.D.	100.	ppb(v)	N.D.	360.	ug/m3	500

Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

Sample Number: AQ 4678461

07238	Benzene	71-43-2	80,000.	5,000.	ppb(v)	260,000.	16,000.	ug/m3	25000
07250	Toluene	108-88-3	490,000.	5,000.	ppb(v)	1,800,00	19,000.	ug/m3	25000
						0.			
07261	Ethylbenzene	100-41-4	50,000.	5,000.	ppb(v)	220,000.	22,000.	ug/m3	25000
07262	m/p-Xylene	1330-20-7	180,000.	5,000.	ppb(v)	780,000.	22,000.	ug/m3	25000
07263	o-Xylene	95-47-6	66,000.	5,000.	ppb(v)	290,000.	22,000.	ug/m3	25000

The sample was collected in a Tedlar bag which is not the container

referenced in the EPA method.

The reporting limits for the $\operatorname{GC}/\operatorname{MS}$ volatile compounds were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

CAT			-	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	12/27/2005 14:32	George M Main	10
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/27/2005 15:04	George M Main	500
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/28/2005 12:34	George M Main	25000

Sample Number: AQ 4678462

SVE-4D Grab Tedlar Bag Air Sample

Sunol, CA

Chevron Pipeline Co. 2811 Hayes Road Houston TX 77082

Account: 11875

Collected: 12/22/2005 07:25 by GW Submitted: 12/23/2005 10:15 Reported: 12/29/2005 at 15:29

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Unit	Result	MDL	Unit	DF
07548	>C4-C10 Hydrocarbons in Air								
07549	>C4-C10 Hydrocarbons methane	n.a.	14,000.	10.	ppm(v)	9,200.	6.6	mg/m3	10
07550	>C4-C10 Hydrocarbons propane	n.a.	4,400.	10.	ppm(v)	7,900.	18.	mg/m3	10
07551	>C4-C10 Hydrocarbons hexane	n.a.	2,400.	10.	ppm(v)	8,500.	35.	mg/m3	10
07869	TO-14A VOA Ext. List Tedlar								
07225	Methyl t-Butyl Ether	1634-04-4	N.D.	100.	ppb(v)	N.D.	360.	ug/m3	500
07238	Benzene	71-43-2	30,000.	100.	ppb(v)	96,000.	320.	ug/m3	500
07250	Toluene	108-88-3	410,000.	10,000.	ppb(v)	1,500,00 0.	38,000.	ug/m3	50000
07261	Ethylbenzene	100-41-4	28,000.	100.	ppb(v)	120,000.	430.	ug/m3	500
07262	m/p-Xylene	1330-20-7	380,000.	10,000.	ppb(v)	1,700,00 0.	43,000.	ug/m3	50000
07263	o-Xylene	95-47-6	32,000.	100.	ppb(v)	140,000.	430.	ug/m3	500
	The comple was collected in a Te	adlam bag which	ah ia not t	he centain	0.70				

The sample was collected in a Tedlar bag which is not the container referenced in the EPA method.

The reporting limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.

Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

Sample Number: AQ 4678462

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	12/28/2005 12:48	David I Ressler	10
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/27/2005 16:28	George M Main	500
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/28/2005 13:16	George M Main	50000

Sample Number: AQ 4678463

Influent Grab Tedlar Bag Air Sample Sunol, CA

Chevron Pipeline Co. 2811 Hayes Road Houston TX 77082

Account: 11875

Collected: 12/22/2005 07:45 by GW Submitted: 12/23/2005 10:15 Reported: 12/29/2005 at 15:29

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Unit	Result	MDL	Unit	DF
07548	>C4-C10 Hydrocarbons in Air								
07549	>C4-C10 Hydrocarbons methane	n.a.	14,000.	1.0	ppm(v)	9,200.	0.66	mg/m3	1
07550	>C4-C10 Hydrocarbons propane	n.a.	4,400.	1.0	ppm(v)	7,900.	1.8	mg/m3	1
07551	>C4-C10 Hydrocarbons hexane	n.a.	2,300.	1.0	ppm(v)	8,100.	3.5	mg/m3	1
07869	TO-14A VOA Ext. List Tedlar								
07225	Methyl t-Butyl Ether	1634-04-4	N.D.	100.	ppb(v)	N.D.	360.	ug/m3	500
07238	Benzene	71-43-2	30,000.	100.	ppb(v)	96,000.	320.	ug/m3	500
07250	Toluene	108-88-3	160,000.	1,000.	ppb(v)	600,000.	3,800.	ug/m3	5000
07261	Ethylbenzene	100-41-4	17,000.	100.	ppb(v)	74,000.	430.	ug/m3	500
07262	m/p-Xylene	1330-20-7	63,000.	100.	ppb(v)	270,000.	430.	ug/m3	500
07263	o-Xylene	95-47-6	19,000.	100.	ppb(v)	83,000.	430.	ug/m3	500

The sample was collected in a Tedlar bag which is not the container referenced in the EPA method. The reporting limits for the GC/MS volatile compounds were raised

The reporting limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	12/27/2005 11:01	George M Main	1
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/27/2005 17:51	George M Main	500
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/28/2005 13:59	George M Main	5000

Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

ReferenceID: 9724132912051531I48



Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	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)	Ī	liter(s)
m3	cubic meter(s)	ul	microliter(s)

- < less than The number following the sign is the <u>limit of quantitation</u>, 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		Inorganic Qualifiers
Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	Ε	Estimated due to interference
С	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
Р	Concentration difference between primary and	W	Post digestion spike out of control limits
	confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA < 0.995
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope 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.

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ANALYTICAL RESULTS

Prepared for:

Chevron Pipeline Co. 2811 Hayes Road Houston TX 77082

281-596-3564

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 973207. Samples arrived at the laboratory on Thursday, January 05, 2006. The PO# for this group is 99011184.

Client Description	<u>Lancaster Labs Number</u>
SVE-1D-1/4/06 Tedlar Bag Grab Air Sample	4682448
SVE-2S-1/4/06 Tedlar Bag Grab Air Sample	4682449
SVE-3S-1/4/06 Tedlar Bag Grab Air Sample	4682450
SVE-4D-1/4/06 Tedlar Bag Grab Air Sample	4682451
Influent-1/4/06 Tedlar Bag Grab Air Sample	4682452

ELECTRONIC COPY TO	Chevron Pipeline Co.	Attn: Angela Liang
ELECTRONIC COPY TO	Chevron Pipeline Co.	Attn: Joe Morgan
ELECTRONIC	Chevron Pipeline Co	Attn: April Giangerelli
COPY TO ELECTRONIC COPY TO	Chevron Pipeline Co	Attn: Greg White



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Questions? Contact your Client Services Representative Heidi L Ortenzi at (717) 656-2300

Respectfully Submitted,

Michele J. Smith Group Leader



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Lancaster Laboratories Sample No. AQ 4682448

SVE-1D-1/4/06 Tedlar Bag Grab Air Sample Sunol, CA

Collected:01/04/2006 08:20 by GW Account Number: 11875

 Submitted: 01/05/2006 09:30
 Chevron Pipeline Co.

 Reported: 01/10/2006 at 16:18
 2811 Hayes Road

 Discard: 02/10/2006
 Houston TX 77082

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
075	48 >C4-C10 Hydrocarbons in Air								
075	51 >C4-C10 Hydrocarbons hexane	n.a.	2,900.	1.0	ppm(v)	10,000.	3.5	mg/m3	1
078	69 TO-14A VOA Ext. List Tedlar								
072	38 Benzene	71-43-2	24,000.	400.	ppb(v)	77,000.	1,300.	ug/m3	2000
072	50 Toluene	108-88-3	200,000.	400.	ppb(v)	750,000.	1,500.	ug/m3	2000
072	61 Ethylbenzene	100-41-4	20,000.	400.	ppb(v)	87,000.	1,700.	ug/m3	2000
072	62 m/p-Xylene	1330-20-7	86,000.	400.	ppb(v)	370,000.	1,700.	ug/m3	2000
072	63 o-Xylene	95-47-6	32,000.	400.	ppb(v)	140,000.	1,700.	ug/m3	2000

The sample was collected in a Tedlar bag which is not the container referenced in the EPA method. The reporting limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	01/05/2006 16:15	Douglas Graham	1
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	01/07/2006 00:51	Douglas Graham	2000



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4682449

SVE-2S-1/4/06 Tedlar Bag Grab Air Sample Sunol, CA

Collected:01/04/2006 08:15 by GW Account Number: 11875

 Submitted:
 01/05/2006 09:30
 Chevron Pipeline Co.

 Reported:
 01/10/2006 at 16:18
 2811 Hayes Road

 Discard:
 02/10/2006
 Houston TX 77082

CAT	r		As Received Final			As Received Final			
No.	. Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
075	548 >C4-C10 Hydrocarbons in Air								
075	>C4-C10 Hydrocarbons hexane	n.a.	100.	1.0	ppm(v)	350.	3.5	mg/m3	1
078	869 TO-14A VOA Ext. List Tedlar								
072	238 Benzene	71-43-2	870.	20.	ppb(v)	2,800.	64.	ug/m3	100
072	250 Toluene	108-88-3	8,100.	20.	ppb(v)	31,000.	75.	ug/m3	100
072	261 Ethylbenzene	100-41-4	790.	20.	ppb(v)	3,400.	87.	ug/m3	100
072	262 m/p-Xylene	1330-20-7	4,400.	20.	ppb(v)	19,000.	87.	ug/m3	100
072	263 o-Xylene	95-47-6	1,900.	20.	ppb(v)	8,300.	87.	ug/m3	100

The sample was collected in a Tedlar bag which is not the container referenced in the EPA method. The reporting limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	01/05/2006 16:46	Douglas Graham	1
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	01/07/2006 02:15	Douglas Graham	100



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4682450

SVE-3S-1/4/06 Tedlar Bag Grab Air Sample Sunol, CA

Collected:01/04/2006 08:05 by GW Account Number: 11875

Submitted: 01/05/2006 09:30 Reported: 01/10/2006 at 16:18

Discard: 02/10/2006

Chevron Pipeline Co. 2811 Hayes Road Houston TX 77082

No. Analysis Name CAS Number Result MDL Units Result MDL Units DF 07548 >C4-C10 Hydrocarbons in Air 7,400. 10. ppm(v) 26,000. 35. mg/m3 10 07869 T0-14A VOA Ext. List Tedlar 71-43-2 81,000. 1,000. ppb(v) 260,000. 3,200. ug/m3 5000 07250 Toluene 108-88-3 450,000. 1,000. ppb(v) 1,700,00 3,800. ug/m3 5000
07551 >C4-C10 Hydrocarbons hexane n.a. 7,400. 10. ppm(v) 26,000. 35. mg/m3 10 07869 TO-14A VOA Ext. List Tedlar 07238 Benzene 71-43-2 81,000. 1,000. ppb(v) 260,000. 3,200. ug/m3 5000 07250 Toluene 108-88-3 450,000. 1,000. ppb(v) 1,700,00 3,800. ug/m3 5000
07869 TO-14A VOA Ext. List Tedlar 07238 Benzene 71-43-2 81,000. 1,000. ppb(v) 260,000. 3,200. ug/m3 5000 07250 Toluene 108-88-3 450,000. 1,000. ppb(v) 1,700,00 3,800. ug/m3 5000
07238 Benzene 71-43-2 81,000. 1,000. ppb(v) 260,000. 3,200. ug/m3 5000 07250 Toluene 108-88-3 450,000. 1,000. ppb(v) 1,700,00 3,800. ug/m3 5000
07250 Toluene 108-88-3 450,000. 1,000. ppb(v) 1,700,00 3,800. ug/m3 5000
0.
07261 Ethylbenzene 100-41-4 38,000. 1,000. ppb(v) 170,000. 4,300. ug/m3 5000
07262 m/p-Xylene 1330-20-7 120,000. 1,000. ppb(v) 520,000. 4,300. ug/m3 5000
07263 o-Xylene 95-47-6 38,000. 1,000. ppb(v) 170,000. 4,300. ug/m3 5000

The sample was collected in a Tedlar bag which is not the container referenced in the $\ensuremath{\mathtt{EPA}}$ method.

The reporting limits for the GC/MS volatile compounds were raised

because sample dilution was necessary to bring target compounds into the calibration range of the system.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	01/06/2006 10:13	David I Ressler	10
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	01/07/2006 02:57	Douglas Graham	5000



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4682451

SVE-4D-1/4/06 Tedlar Bag Grab Air Sample Sunol, CA

Collected:01/04/2006 08:10 by GW Account Number: 11875

 Submitted:
 01/05/2006 09:30
 Chevron Pipeline Co.

 Reported:
 01/10/2006 at 16:18
 2811 Hayes Road

 Discard:
 02/10/2006
 Houston TX 77082

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	1,900.	1.0	ppm(v)	6,700.	3.5	mg/m3	1
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	13,000.	400.	ppb(v)	42,000.	1,300.	ug/m3	2000
07250	Toluene	108-88-3	130,000.	400.	ppb(v)	490,000.	1,500.	ug/m3	2000
07261	Ethylbenzene	100-41-4	17,000.	400.	ppb(v)	74,000.	1,700.	ug/m3	2000
07262	m/p-Xylene	1330-20-7	63,000.	400.	ppb(v)	270,000.	1,700.	ug/m3	2000
07263	o-Xylene	95-47-6	22,000.	400.	ppb(v)	96,000.	1,700.	ug/m3	2000

The sample was collected in a Tedlar bag which is not the container referenced in the EPA method. The reporting limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	01/05/2006 17:47	Douglas Graham	1
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	01/07/2006 05:03	Douglas Graham	2000



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4682452

Influent-1/4/06 Tedlar Bag Grab Air Sample
Sunol, CA

Collected:01/04/2006 08:30 by GW Account Number: 11875

 Submitted:
 01/05/2006 09:30
 Chevron Pipeline Co.

 Reported:
 01/10/2006 at 16:18
 2811 Hayes Road

 Discard:
 02/10/2006
 Houston TX 77082

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	2,800.	1.0	ppm(v)	9,900.	3.5	mg/m3	1
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	33,000.	1,000.	ppb(v)	110,000.	3,200.	ug/m3	5000
07250	Toluene	108-88-3	290,000.	1,000.	ppb(v)	1,100,00 0.	3,800.	ug/m3	5000
07261	Ethylbenzene	100-41-4	43,000.	1,000.	ppb(v)	190,000.	4,300.	ug/m3	5000
07262	m/p-Xylene	1330-20-7	160,000.	1,000.	ppb(v)	690,000.	4,300.	ug/m3	5000
07263	o-Xylene	95-47-6	60,000.	1,000.	ppb(v)	260,000.	4,300.	ug/m3	5000

The sample was collected in a Tedlar bag which is not the container referenced in the EPA method. The reporting limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	01/05/2006 18:17	Douglas Graham	1
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	01/07/2006 06:27	Douglas Graham	5000



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Page 1 of 1

Quality Control Summary

Client Name: Chevron Pipeline Co. Group Number: 973207

Reported: 01/10/06 at 04:19 PM

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 <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: A0600630A	Sample nu	mber(s):	4682448-46	82452				
Benzene	N.D.	0.20	ppb(v)	101		76-145		
Toluene	N.D.	0.20	ppb(v)	105		62-152		
Ethylbenzene	N.D.	0.20	(v) dqq	101		60-142		
m/p-Xylene	N.D.	0.20	ppb(v)	107		58-152		
o-Xylene	N.D.	0.20	ppb(v)	107		63-156		
Batch number: M060061ZA	Sample nu	mber(s):	4682451					
>C4-C10 Hydrocarbons hexane	N.D.	1.0	ppm(v)					
Batch number: M060061ZB	Sample nu	mber(s):	4682448-46	82449,4682	2452			
>C4-C10 Hydrocarbons hexane	N.D.	1.0	ppm(v)	•				
Batch number: M060091ZA	Sample nu	mber(s):	4682450					
>C4-C10 Hydrocarbons hexane	N.D.	1.0	ppm(v)					

*- 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

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Chevron California Region Analysis Request/Chain of Custody

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Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	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)	Ī	liter(s)
m3	cubic meter(s)	ul	microliter(s)

- < less than The number following the sign is the <u>limit of quantitation</u>, 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		Inorganic Qualifiers
Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	Ε	Estimated due to interference
С	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
Р	Concentration difference between primary and	W	Post digestion spike out of control limits
	confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA < 0.995
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope 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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.



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ANALYTICAL RESULTS

Prepared for:

Chevron Pipeline Co. 4800 Fournace Place - E320 D Bellaire TX 77401

713-432-3335

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 974030. Samples arrived at the laboratory on Thursday, January 12, 2006. The PO# for this group is 99011184.

Client Description	<u>Lancaster Labs Number</u>
SVE-1D-1/11/06 Tedlar Bag Grab Air Sample	4686706
SVE-2S-1/11/06 Tedlar Bag Grab Air Sample	4686707
SVE-3S-1/11/06 Tedlar Bag Grab Air Sample	4686708

ELECTRONIC	Chevron Pipeline Co.	Attn: Angela Liang
COPY TO		
ELECTRONIC	Chevron Pipeline Co.	Attn: Joe Morgan
COPY TO	•	-
ELECTRONIC	Chevron Pipeline Co	Attn: Greg White
COPY TO	•	C



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Questions? Contact your Client Services Representative Heidi L Ortenzi at (717) 656-2300

Respectfully Submitted,

Michele J. Smith Group Leader



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4686706

SVE-1D-1/11/06 Tedlar Bag Grab Air Sample Sunol, CA

Collected:01/11/2006 08:45 by GW Account Number: 11875

Submitted: 01/12/2006 09:00 Chevron Pipeline Co.

Reported: 01/25/2006 at 15:28 4800 Fournace Place - E320 D

Discard: 02/25/2006 Bellaire TX 77401

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	2,700.	1.0	ppm(v)	9,500.	3.5	mg/m3	1
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	43,000.	1,000.	ppb(v)	140,000.	3,200.	ug/m3	5000
07250	Toluene	108-88-3	360,000.	1,000.	ppb(v)	1,400,00	3,800.	ug/m3	5000
07261	Ethylbenzene	100-41-4	35,000.	1,000.	ppb(v)	150,000.	4,300.	ug/m3	5000
07262	m/p-Xylene	1330-20-7	130,000.	1,000.	ppb(v)	560,000.	4,300.	ug/m3	5000
07263	o-Xylene	95-47-6	46,000.	1,000.	ppb(v)	200,000.	4,300.	ug/m3	5000

The sample was collected in a Tedlar bag which is not the container referenced in the EPA method. The reporting limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.

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.

MDL = Method Detection Limit

CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	01/12/2006 11:57	David I Ressler	1
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	01/12/2006 16:47	Jeffrey B Smith	5000



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4686707

SVE-2S-1/11/06 Tedlar Bag Grab Air Sample Sunol, CA

Collected:01/11/2006 08:40 by GW Account Number: 11875

Submitted: 01/12/2006 09:00 Chevron Pipeline Co.

Reported: 01/25/2006 at 15:28 4800 Fournace Place - E320 D

Discard: 02/25/2006 Bellaire TX 77401

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	120.	1.0	ppm(v)	420.	3.5	mg/m3	1
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	1,000.	10.	ppb(v)	3,200.	32.	ug/m3	50
07250	Toluene	108-88-3	12,000.	100.	ppb(v)	45,000.	380.	ug/m3	500
07261	Ethylbenzene	100-41-4	2,100.	10.	ppb(v)	9,100.	43.	ug/m3	50
07262	m/p-Xylene	1330-20-7	13,000.	100.	ppb(v)	56,000.	430.	ug/m3	500
07263	o-Xylene	95-47-6	4,800.	10.	ppb (v)	21,000.	43.	ug/m3	50

The sample was collected in a Tedlar bag which is not the container referenced in the EPA method. The reporting limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.

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.

MDL = Method Detection Limit

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	01/12/2006 12:31	David I Ressler	1
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	01/12/2006 18:10	Jeffrey B Smith	500
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	01/12/2006 18:52	Jeffrey B Smith	50



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4686708

SVE-3S-1/11/06 Tedlar Bag Grab Air Sample Sunol, CA

Collected:01/11/2006 08:30 by GW Account Number: 11875

Submitted: 01/12/2006 09:00 Chevron Pipeline Co.

Reported: 01/25/2006 at 15:28 4800 Fournace Place - E320 D

Discard: 02/25/2006 Bellaire TX 77401

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	4,100.	10.	ppm(v)	14,000.	35.	mg/m3	10
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	150,000.	1,000.	ppb(v)	480,000.	3,200.	ug/m3	5000
07250	Toluene	108-88-3	960,000.	10,000.	ppb(v)	3,600,00 0.	38,000.	ug/m3	50000
07261	Ethylbenzene	100-41-4	110,000.	1,000.	ppb(v)	480,000.	4,300.	ug/m3	5000
07262	m/p-Xylene	1330-20-7	440,000.	1,000.	ppb(v)	1,900,00 0.	4,300.	ug/m3	5000
07263	o-Xylene	95-47-6	160,000.	1,000.	ppb (v)	690,000.	4,300.	ug/m3	5000
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The sample was collected in a Tedlar bag which is not the container referenced in the EPA method. The reporting limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the

calibration range of the system.

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.

MDL = Method Detection Limit

CAT			4	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	01/13/2006 09:28	David I Ressler	10
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	01/12/2006 19:34	Jeffrey B Smith	5000
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	01/12/2006 23:46	Jeffrey B Smith	50000



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Page 1 of 1

Quality Control Summary

Client Name: Chevron Pipeline Co. Group Number: 974030

Reported: 01/25/06 at 03:28 PM

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 <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: A0601230A	_		4686706-46			76.145		
Benzene Toluene	N.D. N.D.	0.20 0.20	(v) dgg (v) dgg	98 103		76-145 62-152		
Ethylbenzene	N.D.	0.20	(v) dqq	103		60-142		
m/p-Xylene	N.D.	0.20	(v) dqq	97		58-152		
o-Xylene	N.D.	0.20	ppb(v)	103		63-156		
Batch number: M060161ZA >C4-C10 Hydrocarbons hexane	Sample num	mber(s): 1.0	4686708 ppm(v)					
Batch number: M060191ZA >C4-C10 Hydrocarbons hexane	Sample num	mber(s):	4686706-46 ppm(v)	86707				

*- 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.

Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

Sample Number: AQ 4686715

Account: 11875

SVE-4D-1/11/06 Tedlar Bag Grab Air Sample

Sunol, CA

Chevron Pipeline Co.

4800 Fournace Place - E320 D

Bellaire TX 77401

Collected: 01/11/2006 08:35 by GW Submitted: 01/12/2006 09:00 Reported: 01/18/2006 at 17:27

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Unit	Result	MDL	Unit	DF
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	33,000.	1,000.	ppb(v)	110,000.	3,200.	ug/m3	5000
07250	Toluene	108-88-3	420,000.	1,000.	ppb(v)	1,600,00 0.	3,800.	ug/m3	5000
07261	Ethylbenzene	100-41-4	53,000.	1,000.	ppb(v)	230,000.	4,300.	ug/m3	5000
07262	m/p-Xylene	1330-20-7	190,000.	1,000.	ppb(v)	830,000.	4,300.	ug/m3	5000
07263	o-Xylene	95-47-6	65,000.	1,000.	ppb(v)	280,000.	4,300.	ug/m3	5000
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The sample was collected in a Tedlar bag which is not the container referenced in the EPA method. The reporting limits for the GC/MS volatile compounds were raised

because sample dilution was necessary to bring target compounds into the

calibration range of the system.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

CAT			Analysis	Dilution
No.	Analysis Name	Method	Trial# Date and Time Analyst	Factor
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1 01/12/2006 21:00 Jeffrey B Smith	5000

Sample Number: AQ 4686716

Influent-1/11/06 Tedlar Bag Grab Air Sample

Sunol, CA

Chevron Pipeline Co.

4800 Fournace Place - E320 D

Bellaire TX 77401

Account: 11875

Collected: 01/11/2006 08:55 by GW Submitted: 01/12/2006 09:00 Reported: 01/18/2006 at 17:27

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Unit	As Received Final Result	MDL	Unit	DF
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	56,000.	1,000.	ppb (v)	180,000.	3,200.	ug/m3	5000
07250	Toluene	108-88-3	480,000.	1,000.	ppb (v)	1,800,00	3,800.	ug/m3	5000
07261	Ethylbenzene	100-41-4	51,000.	1,000.	ppb(v)	220,000.	4,300.	ug/m3	5000
07262	m/p-Xylene	1330-20-7	180,000.	1,000.	ppb(v)	780,000.	4,300.	ug/m3	5000

Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

Sample Number: AQ 4686716

07263 o-Xylene 95-47-6 60,000. 1,000. ppb(v) 260,000. 4,300. ug/m3 5000

The sample was collected in a Tedlar bag which is not the container referenced in the EPA method.

The reporting limits for the $\ensuremath{\mathsf{GC/MS}}$ volatile compounds were raised

because sample dilution was necessary to bring target compounds into the

calibration range of the system.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

CAT Analysis Dilution Trial# Date and Time Analysis Name Method Analyst Factor No. 07869 TO-14A VOA Ext. List Tedlar EPA TO14A 1 01/12/2006 22:23 Jeffrey B Smith 5000

Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

Sample Number: AQ 4686715

Account: 11875

SVE-4D-1/11/06 Tedlar Bag Grab Air Sample

Sunol, CA

Chevron Pipeline Co.

4800 Fournace Place - E320 D

Bellaire TX 77401

Collected: 01/11/2006 08:35 by GW Submitted: 01/12/2006 09:00 Reported: 01/25/2006 at 15:27

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Unit	Result	MDL	Unit	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	1,500.	10.	ppm(v)	5,300.	35.	mg/m3	10

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

CAT			-	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	01/13/2006 09:59	David I Ressler	10

Sample Number: AQ 4686716

Influent-1/11/06 Tedlar Bag Grab Air Sample

Sunol, CA

Account: 11875

Chevron Pipeline Co.

4800 Fournace Place - E320 D

Bellaire TX 77401

Collected: 01/11/2006 08:55 by GW Submitted: 01/12/2006 09:00 Reported: 01/25/2006 at 15:27

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Unit	Result	MDL	Unit	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	2,000.	10.	ppm(v)	7,000.	35.	mg/m3	10

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	01/13/2006 10:29	David I Ressler	10

Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only

Acct. #: 11875 Sample #: 486706-05 SCR#:

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Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	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)	Ī	liter(s)
m3	cubic meter(s)	ul	microliter(s)

- < less than The number following the sign is the <u>limit of quantitation</u>, 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		Inorganic Qualifiers
Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	Ε	Estimated due to interference
С	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
Р	Concentration difference between primary and	W	Post digestion spike out of control limits
	confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA < 0.995
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope 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.

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ANALYTICAL RESULTS

Prepared for:

Chevron Pipeline Co. 4800 Fournace Place - E320 D Bellaire TX 77401

713-432-3335

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 974698. Samples arrived at the laboratory on Wednesday, January 18, 2006. The PO# for this group is 99011184.

Client Description	<u>Lancaster Labs Number</u>
SVE-1D-1/17/06 Tedlar Bag Grab Air Sample	4690181
SVE-2S-1/17/06 Tedlar Bag Grab Air Sample	4690182
SVE-3S-1/17/06 Tedlar Bag Grab Air Sample	4690183
SVE-4D-1/17/06 Tedlar Bag Grab Air Sample	4690184
SVE-Influent-1/17/06 Tedlar Bag Grab Air Sample	4690185

ELECTRONIC COPY TO	Chevron Pipeline Co.	Attn: Angela Liang
ELECTRONIC COPY TO	Chevron Pipeline Co.	Attn: Joe Morgan
ELECTRONIC	Chevron Pipeline Co	Attn: April Giangerelli
COPY TO ELECTRONIC COPY TO	Chevron Pipeline Co	Attn: Greg White



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Questions? Contact your Client Services Representative Heidi L Ortenzi at (717) 656-2300

Respectfully Submitted,

Michele J. Smith Group Leader



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4690181

SVE-1D-1/17/06 Tedlar Bag Grab Air Sample Sunol, CA

Collected:01/17/2006 08:25 by GW Account Number: 11875

Submitted: 01/18/2006 11:40 Chevron Pipeline Co.

Reported: 01/23/2006 at 17:11 4800 Fournace Place - E320 D

Discard: 02/23/2006 Bellaire TX 77401

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	2,700.	1.0	ppm(v)	9,500.	3.5	mg/m3	1
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	50,000.	1,000.	ppb(v)	160,000.	3,200.	ug/m3	5000
07250	Toluene	108-88-3	490,000.	1,000.	ppb(v)	1,800,00 0.	3,800.	ug/m3	5000
07261	Ethylbenzene	100-41-4	51,000.	1,000.	ppb(v)	220,000.	4,300.	ug/m3	5000
07262	m/p-Xylene	1330-20-7	210,000.	1,000.	ppb(v)	910,000.	4,300.	ug/m3	5000
07263	o-Xylene	95-47-6	76,000.	1,000.	ppb(v)	330,000.	4,300.	ug/m3	5000
	The gample was collected in a Te	odlar bag whic	sh id not t	ho gontain	22				

The sample was collected in a Tedlar bag which is not the container referenced in the EPA method.

The reporting limits for the $\ensuremath{\mathsf{GC/MS}}$ volatile compounds were raised

because sample dilution was necessary to bring target compounds into the calibration range of the system.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT				Analysis	Dilution		
	No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
	07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	01/18/2006 21:49	Douglas Graham	1
	07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	01/20/2006 06:12	Jeffrey B Smith	5000



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4690182

SVE-2S-1/17/06 Tedlar Bag Grab Air Sample Sunol, CA

Collected:01/17/2006 08:20 by GW Account Number: 11875

Submitted: 01/18/2006 11:40 Chevron Pipeline Co.

Reported: 01/23/2006 at 17:11 4800 Fournace Place - E320 D

Discard: 02/23/2006 Bellaire TX 77401

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	180.	1.0	ppm(v)	630.	3.5	mg/m3	1
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	1,100.	100.	ppb(v)	3,500.	320.	ug/m3	500
07250	Toluene	108-88-3	21,000.	100.	ppb(v)	79,000.	380.	ug/m3	500
07261	Ethylbenzene	100-41-4	4,600.	100.	ppb(v)	20,000.	430.	ug/m3	500
07262	m/p-Xylene	1330-20-7	19,000.	100.	ppb(v)	83,000.	430.	ug/m3	500
07263	o-Xylene	95-47-6	7,900.	100.	ppb(v)	34,000.	430.	ug/m3	500

The sample was collected in a Tedlar bag which is not the container referenced in the $\ensuremath{\mathsf{EPA}}$ method. The reporting limits for the GC/MS volatile compounds were raised

because sample dilution was necessary to bring target compounds into the calibration range of the system.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	01/18/2006 22:15	Douglas Graham	1
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	01/20/2006 07:35	Jeffrey B Smith	500



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4690183

SVE-3S-1/17/06 Tedlar Bag Grab Air Sample Sunol, CA

Collected:01/17/2006 08:10 by GW Account Number: 11875

Submitted: 01/18/2006 11:40 Chevron Pipeline Co.

Reported: 01/23/2006 at 17:11 4800 Fournace Place - E320 D

Discard: 02/23/2006 Bellaire TX 77401

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane The reporting limit for the C4- dilution was necessary to bring the system.	-			-	15,000. ge of	35.	mg/m3	10
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	72,000.	2,000.	ppb(v)	230,000.	6,400.	ug/m3	10000
07250	Toluene	108-88-3	650,000.	2,000.	ppb(v)	2,400,00	7,500.	ug/m3	10000
07261	Ethylbenzene	100-41-4	79,000.	2,000.	ppb(v)	340,000.	8,700.	ug/m3	10000
07262	m/p-Xylene	1330-20-7	290,000.	2,000.	ppb(v)	1,300,00	8,700.	ug/m3	10000
07263	o-Xylene	95-47-6	89,000.	2,000.	ppb(v)	390,000.	8,700.	ug/m3	10000
	The sample was collected in a Treferenced in the EPA method. The reporting limits for the GC because sample dilution was nectalibration range of the system	C/MS volatile essary to bri	compounds w	ere raised	i				

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT		Analysis	ysis.					
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor		
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	01/19/2006 14:13	David I Ressler	10		
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	01/20/2006 22:44	Jeffrey B Smith	10000		



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4690184

SVE-4D-1/17/06 Tedlar Bag Grab Air Sample Sunol, CA

Collected:01/17/2006 08:15 by GW Account Number: 11875

Submitted: 01/18/2006 11:40 Chevron Pipeline Co.

Reported: 01/23/2006 at 17:11 4800 Fournace Place - E320 D

Discard: 02/23/2006 Bellaire TX 77401

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	1,800.	1.0	ppm(v)	6,300.	3.5	mg/m3	1
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	39,000.	1,000.	ppb(v)	120,000.	3,200.	ug/m3	5000
07250	Toluene	108-88-3	500,000.	1,000.	ppb(v)	1,900,00 0.	3,800.	ug/m3	5000
07261	Ethylbenzene	100-41-4	69,000.	1,000.	ppb(v)	300,000.	4,300.	ug/m3	5000
07262	m/p-Xylene	1330-20-7	250,000.	1,000.	ppb(v)	1,100,00 0.	4,300.	ug/m3	5000
07263	o-Xylene	95-47-6	86,000.	1,000.	ppb(v)	370,000.	4,300.	ug/m3	5000
	The sample was collected in a T	edlar bag whic	ch is not t	he contair	ner				

The sample was collected in a Tedlar bag which is not the container referenced in the EPA method. The reporting limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT		Analysis		Dilution		
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	01/18/2006 23:24	Douglas Graham	1
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	01/20/2006 16:20	Jeffrey B Smith	5000



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4690185

SVE-Influent-1/17/06 Tedlar Bag Grab Air Sample Sunol, CA

Collected:01/17/2006 08:35 by GW Account Number: 11875

Submitted: 01/18/2006 11:40 Chevron Pipeline Co.

Reported: 01/23/2006 at 17:11 4800 Fournace Place - E320 D

Discard: 02/23/2006 Bellaire TX 77401

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	2,000.	1.0	ppm(v)	7,000.	3.5	mg/m3	1
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	64,000.	2,000.	ppb(v)	200,000.	6,400.	ug/m3	10000
07250	Toluene	108-88-3	540,000.	2,000.	ppb(v)	2,000,00	7,500.	ug/m3	10000
07261	Ethylbenzene	100-41-4	63,000.	2,000.	ppb(v)	270,000.	8,700.	ug/m3	10000
07262	m/p-Xylene	1330-20-7	230,000.	2,000.	ppb(v)	1,000,00 0.	8,700.	ug/m3	10000
07263	o-Xylene	95-47-6	83,000.	2,000.	ppb(v)	360,000.	8,700.	ug/m3	10000
	The gample was sellested in a T	odlar bag whi	ah ia not t	ho gontair	201				

The sample was collected in a Tedlar bag which is not the container referenced in the EPA method.

The reporting limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT		Analysis	<u>-</u>					
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor		
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	01/19/2006 07:08	Douglas Graham	1		
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	01/20/2006 20:08	Jeffrey B Smith	10000		



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Page 1 of 1

Quality Control Summary

Client Name: Chevron Pipeline Co. Group Number: 974698

Reported: 01/23/06 at 05:11 PM

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 <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: A0602030A	Sample nu	mber(s):	4690181-46	90182				
Benzene	N.D.	0.20	ppb(v)	115		76-145		
Toluene	N.D.	0.20	ppb(v)	126		62-152		
Ethylbenzene	N.D.	0.20	ppb(v)	122		60-142		
m/p-Xylene	N.D.	0.20	ppb(v)	117		58-152		
o-Xylene	N.D.	0.20	ppb(v)	120		63-156		
Batch number: A0602030B Benzene Toluene Ethylbenzene m/p-Xylene o-Xylene	Sample num N.D. N.D. N.D. N.D. N.D.	mber(s): 0.20 0.20 0.20 0.20 0.20	4690183-46 ppb(v) ppb(v) ppb(v) ppb(v) ppb(v)	90185 115 126 122 117 120		76-145 62-152 60-142 58-152 63-156		
Batch number: M060191ZA	Sample nu	mber(s):	4690181-46	90182,469	0184-46901	85		
>C4-C10 Hydrocarbons hexane	N.D.	1.0	ppm(v)					
Batch number: M060201ZA >C4-C10 Hydrocarbons hexane	Sample num	mber(s):	4690183 ppm(v)					

*- 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



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Acct.#: O Sample #:	ancaster Laboratories use only	CD#
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Chevron California Region Analysis Request/Chain of Custody



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Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	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)	Ī	liter(s)
m3	cubic meter(s)	ul	microliter(s)

- < less than The number following the sign is the <u>limit of quantitation</u>, 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		Inorganic Qualifiers
Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	E	Estimated due to interference
С	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
Р	Concentration difference between primary and	W	Post digestion spike out of control limits
	confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA < 0.995
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope 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.

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Sample Number: AQ 4695268

Account: 11875

SVE-3S-1/24/06 Tedlar Bag Grab Air Sample

Sunol, CA

Chevron Pipeline Co.

4800 Fournace Place - E320 D

Bellaire TX 77401

Collected: 01/24/2006 07:55 by GW Submitted: 01/25/2006 09:15 Reported: 02/06/2006 at 15:18

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Unit	Result	MDL	Unit	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	3,900.	10.	ppm(v)	14,000.	35.	mg/m3	10
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	140,000.	1,000.	ppb(v)	450,000.	3,200.	ug/m3	5000
07250	Toluene	108-88-3	1,000,00	5,000.	ppb(v)	3,800,00	19,000.	ug/m3	25000
07261	Ethylbenzene	100-41-4	76,000.	1,000.	ppb(v)	330,000.	4,300.	ug/m3	5000
07262	m/p-Xylene	1330-20-7	250,000.	1,000.	ppb(v)	1,100,00	4,300.	ug/m3	5000
07263	o-Xylene	95-47-6	75,000.	1,000.	ppb(v)	330,000.	4,300.	ug/m3	5000
	The sample was collected in a Te	edlar bag whic	ch is not t	he contain	er				

a Tedlar bag which is not the container referenced in the EPA method.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

CAT			4		Dilution	
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	01/26/2006 09:43	David I Ressler	10
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	01/26/2006 17:20	Jeffrey B Smith	5000
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	01/30/2006 13:16	Jeffrey B Smith	25000

Sample Number: AQ 4695269

SVE-2S-1/24/06 Tedlar Bag Grab Air Sample

Sunol, CA

Account: 11875

Chevron Pipeline Co.

4800 Fournace Place - E320 D

Bellaire TX 77401

Collected: 01/24/2006 08:05 by GW Submitted: 01/25/2006 09:15 Reported: 02/06/2006 at 15:18

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Unit	As Received Final Result	MDL	Unit	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	130.	1.0	ppm(v)	460.	3.5	mg/m3	1

Sample Number: AQ 4695269

07869 TO-14A VOA Ext. List Tedlar

07238	Benzene	71-43-2	1,200.	10.	ppb(v)	3,800.	32.	ug/m3	50
07250	Toluene	108-88-3	18,000.	100.	ppb(v)	68,000.	380.	ug/m3	500
07261	Ethylbenzene	100-41-4	3,100.	10.	ppb(v)	13,000.	43.	ug/m3	50
07262	m/p-Xylene	1330-20-7	13,000.	100.	ppb(v)	56,000.	430.	ug/m3	500
07263	o-Xylene	95-47-6	6,000.	100.	ppb(v)	26,000.	430.	ug/m3	500

The sample was collected in a Tedlar bag which is not the container

referenced in the EPA method.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

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CAT		_			Dilution	
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	01/25/2006 14:22	David I Ressler	1
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	01/26/2006 18:42	Jeffrey B Smith	500
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	01/26/2006 19:24	Jeffrey B Smith	50

Sample Number: AQ 4695270

Account: 11875

SVE-1D-1/24/06 Tedlar Bag Grab Air Sample

Sunol, CA

Chevron Pipeline Co.

4800 Fournace Place - E320 D

Bellaire TX 77401

Collected: 01/24/2006 08:10 by GW Submitted: 01/25/2006 09:15 Reported: 02/06/2006 at 15:18

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Unit	Result	MDL	Unit	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	2,200.	10.	ppm(v)	7,800.	35.	mg/m3	10
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	32,000.	100.	ppb(v)	100,000.	320.	ug/m3	500
07250	Toluene	108-88-3	290,000.	1,000.	ppb(v)	1,100,00	3,800.	ug/m3	5000
07261	Ethylbenzene	100-41-4	28,000.	100.	ppb(v)	120,000.	430.	ug/m3	500
07262	m/p-Xylene	1330-20-7	96,000.	1,000.	ppb(v)	420,000.	4,300.	ug/m3	5000
07263	o-Xylene	95-47-6	39,000.	100.	ppb(v)	170,000.	430.	ug/m3	500
	The sample was collected in a Te	dlar bag whic	h is not th	he containe	er				

referenced in the EPA method.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

CAT				Dilution		
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	01/26/2006 10:14	David I Ressler	10
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	01/26/2006 20:05	Jeffrey B Smith	5000
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	01/26/2006 20:47	Jeffrey B Smith	500

Sample Number: AQ 4695271

Account: 11875

SVE-4D-1/24/06 Tedlar Bag Grab Air Sample

Sunol, CA

Chevron Pipeline Co.

4800 Fournace Place - E320 D

Bellaire TX 77401

Collected: 01/24/2006 08:00 by GW Submitted: 01/25/2006 09:15 Reported: 02/06/2006 at 15:18

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Unit	Result	MDL	Unit	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	1,500.	1.0	ppm(v)	5,300.	3.5	mg/m3	1
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	19,000.	100.	ppb(v)	61,000.	320.	ug/m3	500
07250	Toluene	108-88-3	190,000.	1,000.	ppb(v)	720,000.	3,800.	ug/m3	5000
07261	Ethylbenzene	100-41-4	25,000.	100.	ppb(v)	110,000.	430.	ug/m3	500
07262	m/p-Xylene	1330-20-7	92,000.	100.	ppb(v)	400,000.	430.	ug/m3	500
07263	o-Xylene	95-47-6	33,000.	100.	ppb(v)	140,000.	430.	ug/m3	500

The sample was collected in a Tedlar bag which is not the container

referenced in the EPA method.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle								
CAT		-		Analysis		Dilution		
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor		
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	01/25/2006 15:22	David I Ressler	1		
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	01/26/2006 21:29	Jeffrey B Smith	5000		
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	01/26/2006 22:10	Jeffrey B Smith	500		

Sample Number: AQ 4695272

SVE-Influent-1/24/06 Tedlar Bag Grab Air

Sample

Sunol, CA

Account: 11875

Chevron Pipeline Co.

4800 Fournace Place - E320 D

Bellaire TX 77401

Collected: 01/24/2006 08:15 by GW Submitted: 01/25/2006 09:15 Reported: 02/06/2006 at 15:18

As Received Final As Received Final

CAT

Sample Number: AQ 4695272 No. Analysis Name CAS Number Result MDL Unit Result MDL Unit DF 07548 >C4-C10 Hydrocarbons in Air 2,000. 07551 >C4-C10 Hydrocarbons hexane n.a. 1.0 ppm(v) 7,000. 3.5 mg/m3 1 07869 TO-14A VOA Ext. List Tedlar ppb(v) 07238 Benzene 71-43-2 37,000. 100. 120,000. 320. 500 ug/m3 280,000. 1,000. ppb(v) 07250 Toluene 108-88-3 1,100,00 3,800. 5000 ug/m3 ppb(v) 130,000. 430. Ethylbenzene 07261 100-41-4 31,000. 100. ug/m3 500 100,000. 1,000. ug/m3 07262 m/p-Xylene 1330-20-7 ppb(v) 430,000. 4,300. 5000 07263 o-Xylene 95-47-6 41,000. 100. ppb(v) 180,000. 430. 500 ug/m3 The sample was collected in a Tedlar bag which is not the container

State of California Lab Certification No. 2116

MDL = Method Detection Limit

referenced in the EPA method.

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CAT			-	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	01/25/2006 15:53	David I Ressler	1
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	01/27/2006 08:22	Jeffrey B Smith	5000
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	01/27/2006 09:03	Jeffrey B Smith	500



Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	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)	Ī	liter(s)
m3	cubic meter(s)	ul	microliter(s)

- < less than The number following the sign is the <u>limit of quantitation</u>, 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		Inorganic Qualifiers
Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	E	Estimated due to interference
С	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
Р	Concentration difference between primary and	W	Post digestion spike out of control limits
	confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA < 0.995
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope 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.

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Sample Number: AQ 4700925

Account: 11875

SVE-2S-2/1/06 Tedlar Bag Grab Air Sample Sunol, CA

Chevron Pipeline Co.

4800 Fournace Place - E320 D

Bellaire TX 77401

Collected: 02/01/2006 11:18 by AL Submitted: 02/02/2006 09:00 Reported: 02/09/2006 at 17:05

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Unit	Result	MDL	Unit	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	120.	1.0	ppm(v)	420.	3.5	mg/m3	1
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	3,500.	100.	ppb(v)	11,000.	320.	ug/m3	500
07250	Toluene	108-88-3	52,000.	1,000.	ppb(v)	200,000.	3,800.	ug/m3	5000
07261	Ethylbenzene	100-41-4	9,600.	100.	ppb(v)	42,000.	430.	ug/m3	500
07262	m/p-Xylene	1330-20-7	41,000.	100.	ppb(v)	180,000.	430.	ug/m3	500
07263	o-Xylene	95-47-6	22,000.	100.	ppb(v)	96,000.	430.	ug/m3	500
	The cample was collected in a To	adlar bag whi	sh is not t	he contain	or				

The sample was collected in a Tedlar bag which is not the container referenced in the $\ensuremath{\mathsf{EPA}}$ method.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

CAT			-	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	02/02/2006 15:21	David I Ressler	1
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	02/06/2006 15:15	Jeffrey B Smith	5000
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	02/06/2006 15:56	Jeffrey B Smith	500

4700926 Sample Number: AQ

SVE-3S-2/1/06 Tedlar Bag Grab Air Sample

Sunol, CA

Chevron Pipeline Co.

4800 Fournace Place - E320 D

Bellaire TX 77401

Account: 11875

Collected: 02/01/2006 11:12 by AL Submitted: 02/02/2006 09:00 Reported: 02/09/2006 at 17:05

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Unit	Result	MDL	Unit	DF
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	99,000.	1,000.	ppb(v)	320,000.	3,200.	ug/m3	5000

Sample Number: AQ 4700926

07250	Toluene	108-88-3	790,000.	5,000.	ppb(v)	3,000,00	19,000.	ug/m3	25000
07261	Ethylbenzene	100-41-4	61,000.	1,000.	ppb(v)	260,000.	4,300.	ug/m3	5000
07262	m/p-Xylene	1330-20-7	190,000.	1,000.	ppb(v)	830,000.	4,300.	ug/m3	5000
07263	o-Xylene	95-47-6	61,000.	1,000.	ppb(v)	260,000.	4,300.	ug/m3	5000

The sample was collected in a Tedlar bag which is not the container referenced in the EPA method.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

CAT			_		Dilution	
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	02/06/2006 16:39	Jeffrey B Smith	5000
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	02/07/2006 05:12	Jeffrey B Smith	25000

Sample Number: AQ 4700927

SVE-4D-2/1/06 Tedlar Bag Grab Air Sample

Sunol, CA

Account: 11875

Chevron Pipeline Co.

4800 Fournace Place - E320 D

Bellaire TX 77401

Collected: 02/01/2006 11:15 by AL Submitted: 02/02/2006 09:00 Reported: 02/09/2006 at 17:05

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Unit	Result	MDL	Unit	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	1,800.	1.0	ppm(v)	6,300.	3.5	mg/m3	1
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	31,000.	1,000.	ppb(v)	99,000.	3,200.	ug/m3	5000
07250	Toluene	108-88-3	350,000.	1,000.	ppb(v)	1,300,00	3,800.	ug/m3	5000
07261	Ethylbenzene	100-41-4	45,000.	1,000.	ppb(v)	200,000.	4,300.	ug/m3	5000
07262	m/p-Xylene	1330-20-7	170,000.	1,000.	ppb(v)	740,000.	4,300.	ug/m3	5000
07263	o-Xylene	95-47-6	60,000.	1,000.	ppb(v)	260,000.	4,300.	ug/m3	5000
	The sample was collected in a Te	edlar bag whic	ch is not t	he containe	er				

referenced in the EPA method.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory	Chronicle
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CAT			-	Dilution		
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	02/02/2006 16:22	David I Ressler	1
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	02/06/2006 18:02	Jeffrey B Smith	5000

Sample Number: AQ 4700928

Account: 11875

SVE-INF-2/1/06 Tedlar Bag Grab Air Sample

Sunol, CA

Chevron Pipeline Co.

4800 Fournace Place - E320 D

Bellaire TX 77401

Collected: 02/01/2006 11:25 by AL Submitted: 02/02/2006 09:00 Reported: 02/09/2006 at 17:05

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Unit	Result	MDL	Unit	DF
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	44,000.	1,000.	ppb(v)	140,000.	3,200.	ug/m3	5000
07250	Toluene	108-88-3	360,000.	1,000.	ppb(v)	1,400,00	3,800.	ug/m3	5000
07261	Ethylbenzene	100-41-4	31,000.	1,000.	ppb(v)	130,000.	4,300.	ug/m3	5000
07262	m/p-Xylene	1330-20-7	100,000.	1,000.	ppb(v)	430,000.	4,300.	ug/m3	5000
07263	o-Xylene	95-47-6	34,000.	1,000.	ppb(v)	150,000.	4,300.	ug/m3	5000
	The sample was collected in a Te	edlar bag whic	ch is not t	he contain	er				

referenced in the EPA method.

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

CAT			Analysis	Dilution
No.	Analysis Name	Method	Trial# Date and Time Analyst	Factor
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1 02/06/2006 19:26 Jeffrey B Smith	5000

Sample Number: AQ 4700929

SVE-ID-2/1/06 Tedlar Bag Grab Air Sample

Sunol, CA

Chevron Pipeline Co.

4800 Fournace Place - E320 D

Bellaire TX 77401

Account: 11875

Collected: 02/01/2006 11:20 by AL Submitted: 02/02/2006 09:00 Reported: 02/09/2006 at 17:05

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Unit	Result	MDL	Unit	DF
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	48,000.	1,300.	ppb(v)	150,000.	4,000.	ug/m3	6250
07250	Toluene	108-88-3	460,000.	1,300.	ppb(v)	1,700,00 0.	4,700.	ug/m3	6250
07261	Ethylbenzene	100-41-4	47,000.	1,300.	ppb(v)	200,000.	5,400.	ug/m3	6250
07262	m/p-Xylene	1330-20-7	180,000.	1,300.	ppb(v)	780,000.	5,400.	ug/m3	6250
07263	o-Xylene	95-47-6	69,000.	1,300.	ppb(v)	300,000.	5,400.	ug/m3	6250
	The sample was collected in a Te	dlar bag whic	h is not ti	he containe	er.				

sample was collected in a Tedlar bag which is not the container

referenced in the EPA method.

Sample Number: AQ 4700929

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

		<u> </u>	CILLOIL			
CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	02/07/2006 05:54	Jeffrev B Smith	6250

ReferenceID: 976587090206174I53

Sample Number: AQ 4700926

Account: 11875

SVE-3S-2/1/06 Tedlar Bag Grab Air Sample

Sunol, CA

Chevron Pipeline Co.

4800 Fournace Place - E320 D

Bellaire TX 77401

Collected: 02/01/2006 11:12 by AL Submitted: 02/02/2006 09:00 Reported: 02/28/2006 at 16:50

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Unit	Result	MDL	Unit	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	4,400.	10.	ppm(v)	16,000.	35.	mg/m3	10

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	02/03/2006 12:28	David I Ressler	10

Sample Number: AQ 4700928

SVE-INF-2/1/06 Tedlar Bag Grab Air Sample

Sunol, CA

Account: 11875

Chevron Pipeline Co.

4800 Fournace Place - E320 D

Bellaire TX 77401

Collected: 02/01/2006 11:25 by AL Submitted: 02/02/2006 09:00 Reported: 02/28/2006 at 16:50

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Unit	Result	MDL	Unit	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	1,600.	10.	ppm(v)	5,600.	35.	mg/m3	10

State of California Lab Certification No. 2116

 $\mathtt{MDL} = \mathtt{Method} \ \mathtt{Detection} \ \mathtt{Limit}$

Laboratory Chronicle

CAT

No. Analysis Name

Method

Trial# Date and Time

Analysis

Dilution

Factor

7548 > C4-C10 Hydrocarbons in Air

EPA 25 modified

1 02/03/2006 12:58

David I Ressler

10

Sample Number: AQ 4700929

Sample Number: AQ 4700929

Account: 11875

SVE-ID-2/1/06 Tedlar Bag Grab Air Sample

Sunol, CA

Chevron Pipeline Co. 4800 Fournace Place - E320 D

Bellaire TX 77401

Collected: 02/01/2006 11:20 by AL Submitted: 02/02/2006 09:00 Reported: 02/28/2006 at 16:50

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Unit	Result	MDL	Unit	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	2,700.	10.	ppm(v)	9,500.	35.	mg/m3	10

State of California Lab Certification No. 2116

MDL = Method Detection Limit

			0111 0111			
CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	02/03/2006 11:57	David I Ressler	10

Lancaster Laboratories Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	I	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

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

Inorganic Qualifiers

- ppb parts per billion
- **Dry weight**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.

U.S. EPA data qualifiers:

9	lifier	(uu	9	 u	" 9	•

A B C D E	TIC is a possible aldol-condensation product Analyte was also detected in the blank Pesticide result confirmed by GC/MS Compound quatitated on a diluted sample Concentration exceeds the calibration range of the instrument	B E M N S	Value is <crdl, (msa)="" additions="" amount="" but="" calculation<="" control="" due="" duplicate="" estimated="" for="" injection="" interference="" limits="" met="" method="" not="" of="" precision="" spike="" standard="" th="" to="" used="" within="" ≥idl=""></crdl,>
J	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
Р	Concentration difference between primary and	*	Duplicate analysis not within control limits
	confirmation columns >25%	+	Correlation coefficient for MSA < 0.995
U	Compound was not detected		
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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.

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ANALYTICAL RESULTS

Prepared for:

Chevron Pipeline Co. 4800 Fournace Place - E320 D Bellaire TX 77401

713-432-3335

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 977988. Samples arrived at the laboratory on Tuesday, February 14, 2006. The PO# for this group is 99011184.

Client Description	Lancaster Labs Number
SVE-3S-2/13/06 Tedlar Bag Grab Air Sample	4709182
SVE-1D-2/13/06 Tedlar Bag Grab Air Sample	4709183
Influent-2/13/06 Tedlar Bag Grab Air Sample	4709184
SVE-2S-2/13/06 Tedlar Bag Grab Air Sample	4709185
SVE-4D-2/13/06 Tedlar Bag Grab Air Sample	4709186

ELECTRONIC COPY TO	Chevron Pipeline Co.	Attn: Angela Liang
ELECTRONIC COPY TO	Chevron Pipeline Co.	Attn: Joe Morgan
ELECTRONIC COPY TO	Chevron Pipeline Co	Attn: Greg White



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Questions? Contact your Client Services Representative Heidi L Ortenzi at (717) 656-2300

Respectfully Submitted,

Barbara B. Weaver Senior Specialist

Barbara B Weaver



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4709182

SVE-3S-2/13/06 Tedlar Bag Grab Air Sample Sunol, CA

Collected: 02/13/2006 08:50 by GW Account Number: 11875

Submitted: 02/14/2006 09:35 Chevron Pipeline Co.

Reported: 02/17/2006 at 16:54 4800 Fournace Place - E320 D

Discard: 03/20/2006 Bellaire TX 77401

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	2,100.	1.0	ppm(v)	7,400.	3.5	mg/m3	1
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	31,000.	100.	ppb(v)	99,000.	320.	ug/m3	500
07250	Toluene	108-88-3	230,000.	1,000.	ppb(v)	870,000.	3,800.	ug/m3	5000
07261	Ethylbenzene	100-41-4	25,000.	100.	ppb(v)	110,000.	430.	ug/m3	500
07262	m/p-Xylene	1330-20-7	89,000.	100.	ppb(v)	390,000.	430.	ug/m3	500
07263	o-Xylene	95-47-6	28,000.	100.	ppb(v)	120,000.	430.	ug/m3	500
	The sample was collected in a Treferenced in the EPA method.	edlar bag whic	ch is not t	he contain	er				

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.

MDL = Method Detection Limit

CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	02/14/2006 18:37	Douglas Graham	1
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	02/15/2006 15:39	Jeffrey B Smith	5000
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	02/15/2006 16:20	Jeffrey B Smith	500



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4709183

SVE-1D-2/13/06 Tedlar Bag Grab Air Sample Sunol, CA

Collected: 02/13/2006 09:05 by GW Account Number: 11875

Submitted: 02/14/2006 09:35 Chevron Pipeline Co.

Reported: 02/17/2006 at 16:54 4800 Fournace Place - E320 D

Discard: 03/20/2006 Bellaire TX 77401

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	1,900.	10.	ppm(v)	6,700.	35.	mg/m3	10
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	47,000.	100.	ppb(v)	150,000.	320.	ug/m3	500
07250	Toluene	108-88-3	470,000.	1,000.	ppb(v)	1,800,00 0.	3,800.	ug/m3	5000
07261	Ethylbenzene	100-41-4	43,000.	1,000.	ppb(v)	190,000.	4,300.	ug/m3	5000
07262	m/p-Xylene	1330-20-7	170,000.	1,000.	ppb(v)	740,000.	4,300.	ug/m3	5000
07263	o-Xylene	95-47-6	52,000.	1,000.	ppb(v)	230,000.	4,300.	ug/m3	5000
	The sample was collected in a T	edlar bag which	ch is not t	he contain	er				

referenced in the EPA method.

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.

MDL = Method Detection Limit

CAT			4	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	02/15/2006 10:54	David I Ressler	10
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	02/15/2006 17:02	Jeffrey B Smith	5000
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	02/15/2006 17:44	Jeffrey B Smith	500



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4709184

Influent-2/13/06 Tedlar Bag Grab Air Sample
Sunol, CA

Collected: 02/13/2006 09:10 by GW Account Number: 11875

Submitted: 02/14/2006 09:35 Chevron Pipeline Co.

Reported: 02/17/2006 at 16:54 4800 Fournace Place - E320 D

Discard: 03/20/2006 Bellaire TX 77401

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	2,100.	10.	ppm(v)	7,400.	35.	mg/m3	10
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	55,000.	1,000.	ppb(v)	180,000.	3,200.	ug/m3	5000
07250	Toluene	108-88-3	500,000.	1,000.	ppb(v)	1,900,00 0.	3,800.	ug/m3	5000
07261	Ethylbenzene	100-41-4	55,000.	1,000.	ppb(v)	240,000.	4,300.	ug/m3	5000
07262	m/p-Xylene	1330-20-7	200,000.	1,000.	ppb(v)	870,000.	4,300.	ug/m3	5000
07263	o-Xylene	95-47-6	69,000.	1,000.	ppb(v)	300,000.	4,300.	ug/m3	5000
	The sample was collected in a T referenced in the EPA method.	edlar bag whic	ch is not t	he contain	er				

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.

MDL = Method Detection Limit

CAT				Analysis	Dilution	
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	02/15/2006 11:59	David I Ressler	10
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	02/15/2006 18:26	Jeffrey B Smith	5000



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4709185

SVE-2S-2/13/06 Tedlar Bag Grab Air Sample Sunol, CA

Collected: 02/13/2006 09:00 by GW Account Number: 11875

Submitted: 02/14/2006 09:35 Chevron Pipeline Co.

Reported: 02/17/2006 at 16:54 4800 Fournace Place - E320 D

Discard: 03/20/2006 Bellaire TX 77401

CAT	Analysis War	GLG Worth or	As Received Final	107	******	As Received Final	10 7	*****	
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	82.	1.0	ppm(v)	290.	3.5	mg/m3	1
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	650.	10.	ppb(v)	2,100.	32.	ug/m3	50
07250	Toluene	108-88-3	11,000.	100.	ppb(v)	41,000.	380.	ug/m3	500
07261	Ethylbenzene	100-41-4	2,000.	10.	ppb(v)	8,700.	43.	ug/m3	50
07262	m/p-Xylene	1330-20-7	9,600.	10.	ppb(v)	42,000.	43.	ug/m3	50
07263	o-Xylene	95-47-6	4,000.	10.	ppb(v)	17,000.	43.	ug/m3	50
	The sample was collected in a Treferenced in the EPA method.	edlar bag whic	ch is not t	he contain	er				

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.

MDL = Method Detection Limit

CAT				Analysis	Dilution	
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	02/14/2006 20:11	Douglas Graham	1
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	02/15/2006 19:50	Jeffrey B Smith	500
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	02/15/2006 20:32	Jeffrey B Smith	50



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4709186

SVE-4D-2/13/06 Tedlar Bag Grab Air Sample Sunol, CA

Collected: 02/13/2006 08:55 by GW Account Number: 11875

Submitted: 02/14/2006 09:35 Chevron Pipeline Co.

Reported: 02/17/2006 at 16:54 4800 Fournace Place - E320 D

Discard: 03/20/2006 Bellaire TX 77401

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	1,800.	1.0	ppm(v)	6,300.	3.5	mg/m3	1
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	19,000.	100.	ppb(v)	61,000.	320.	ug/m3	500
07250	Toluene	108-88-3	180,000.	1,000.	ppb(v)	680,000.	3,800.	ug/m3	5000
07261	Ethylbenzene	100-41-4	27,000.	100.	ppb(v)	120,000.	430.	ug/m3	500
07262	m/p-Xylene	1330-20-7	62,000.	1,000.	ppb(v)	270,000.	4,300.	ug/m3	5000
07263	o-Xylene	95-47-6	36,000.	100.	ppb(v)	160,000.	430.	ug/m3	500
	The sample was collected in a T	edlar bag whi	ch is not t	he contain	ner				

State of California Lab Certification No. 2116

referenced in the EPA method.

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

MDL = Method Detection Limit

CAT				Analysis	Dilution	
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	02/14/2006 21:23	Douglas Graham	1
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	02/15/2006 21:13	Jeffrey B Smith	5000
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	02/15/2006 21:55	Jeffrey B Smith	500



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Page 1 of 1

Quality Control Summary

Client Name: Chevron Pipeline Co. Group Number: 977988

Reported: 02/17/06 at 04:54 PM

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 <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: A0604630A	_		4709182-47					
Benzene	N.D.	0.20	ppb (v)	116		76-145		
Toluene	N.D.	0.20	ppb(v)	97		62-152		
Ethylbenzene	N.D.	0.20	ppb (v)	95		60-142		
m/p-Xylene	N.D.	0.20	ppb (v)	97		58-152		
o-Xylene	N.D.	0.20	ppb(v)	103		63-156		
Batch number: M060461ZA >C4-C10 Hydrocarbons hexane	Sample num	mber(s): 1.0	4709182,47 ppm(v)	09185-470	9186			
Batch number: M060471ZA >C4-C10 Hydrocarbons hexane	Sample num	mber(s): 1.0	4709183-47 ppm(v)	09184				

*- 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

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Chevron California Region Analysis Request/Chain of Custody

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Lancaster Laboratories Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	I	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

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

Inorganic Qualifiers

- ppb parts per billion
- **Dry weight**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.

U.S. EPA data qualifiers:

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A B C D E	TIC is a possible aldol-condensation product Analyte was also detected in the blank Pesticide result confirmed by GC/MS Compound quatitated on a diluted sample Concentration exceeds the calibration range of the instrument	B E M N S	Value is <crdl, (msa)="" additions="" amount="" but="" calculation<="" control="" due="" duplicate="" estimated="" for="" injection="" interference="" limits="" met="" method="" not="" of="" precision="" spike="" standard="" th="" to="" used="" within="" ≥idl=""></crdl,>
J	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
Р	Concentration difference between primary and	*	Duplicate analysis not within control limits
	confirmation columns >25%	+	Correlation coefficient for MSA < 0.995
U	Compound was not detected		
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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.

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