URS

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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Chevron

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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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bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and total xylenes
cfm	cubic feet per minute
CPL	Chevron Pipe Line Company
F	Fahrenheit
g/m^3	grams per cubic meter
hp	horsepower
PID	photoionization detector
ppm	parts per million
psia	pounds per square inch atmosphere
PVC	polyvinyl chloride
SFPUC	San Francisco Public Utilities Commission
SVE	soil vapor extraction
URS	URS Corporation
USEPA	U.S. Environmental Protection Agency

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.

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.

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.

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
  - 10.8 feet total depth

  - 5 feet screen length
  - Screen interval from 5.4 to 10.4 feet bgs
  - 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
  - Approximate distance from the release location: 12.5 feet
- Well SVE-4D
  - 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

3.1.2 SVE Treatment System

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 chain-link 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.

4.1.1 Well SVE-1D

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.

4.1.4 Well SVE-4D

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.

4.1.5 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 non-detect 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/m^3) at 68° Fahrenheit (F).

The vapor density of gasoline is therefore calculated as 3.3 x 1,200 g/m^3 = 3,960 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°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.

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.

Tables

TABLE 1
SVE Well Construction Details
Chevron Sunol Pipeline

Well ID	Date Completed	Easting	Northing	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Screen Top (feet bgs)	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)	TPH-g Concentration (ppm)	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

Note:
1. Inlet pipe diameter is 2".

Assumptions:
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)] x [(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

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	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

Note:
1. Inlet pipe diameter is 2".

Assumptions:
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)] x [(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

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	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

Note:
1. Inlet pipe diameter is 2".

Assumptions:
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)] x [(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

Note:
1. Inlet pipe diameter is 2".

Assumptions:
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)] x [(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

Figures

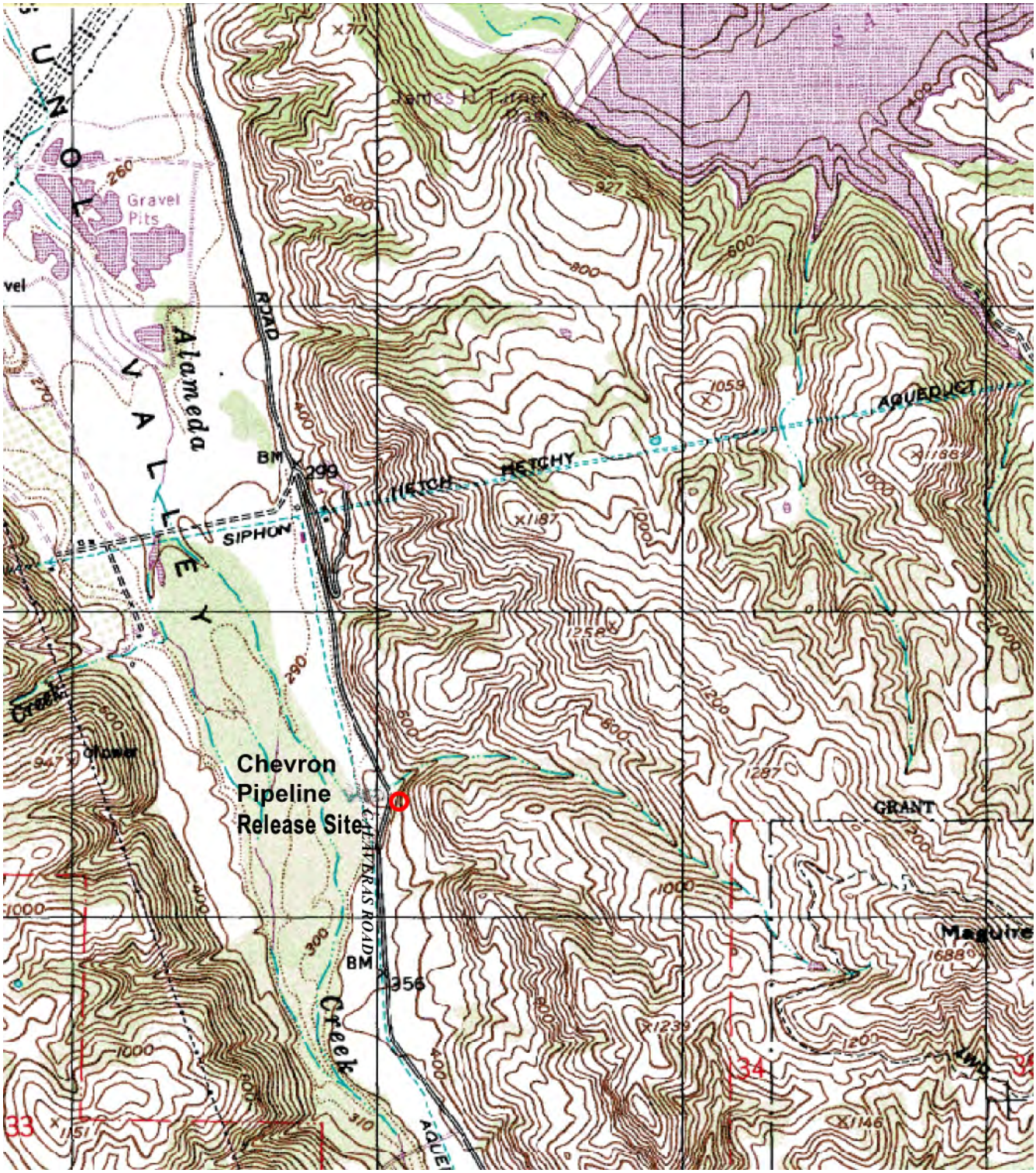


Image obtained from topozone.com

N

MAP REFERENCE:

PORTION OF U.S.G.S. QUANDRANGLE MAP
7 1/2 MINUTE SERIES (TOPOGRAPHIC)
LA COSTA VALLEY QUADRANGLE

URS	Chevron Pipeline Company Project No. 26815217	SITE VICINITY MAP	Figure 1

LEGEND:

- SURFACE WATER SAMPLE
- SOIL BORING
- MONITORING WELLS
- SVE WELLS
- PIPELINE

NORTH

UNNAMED CREEK

PROPERTY LINE/FENCE

SW-CREEK

SB-27

UNNAMED CREEK

SB-26

CALAVERAS RD.

DIRT ROAD

PIPELINE

HILL SLOPE

HILL SLOPE

HILL SLOPE

HILL SLOPE

SB-14

SB-15

SB-13R

SB-13

SB-16

SB-1

SB-10

SB-12

SVE-1D

SB-17

SB-11

SVE-2S

SB-18

SB-24

SB-19

RELEASE LOCATION

SB-22

SVE-3S

SB-23

SB-20

SVE-4D

SB-21

SB-25

MW-4

HSA-2

SB-2

SB-9

MW-7

MW-3

MW-1

SB-3

MW-5

SB-8

HSA-1

SB-4

SB-7

AR-2

MW-2

MW-6

SB-5

SB-6

40' 0 40'

SCALE 1"= 40'

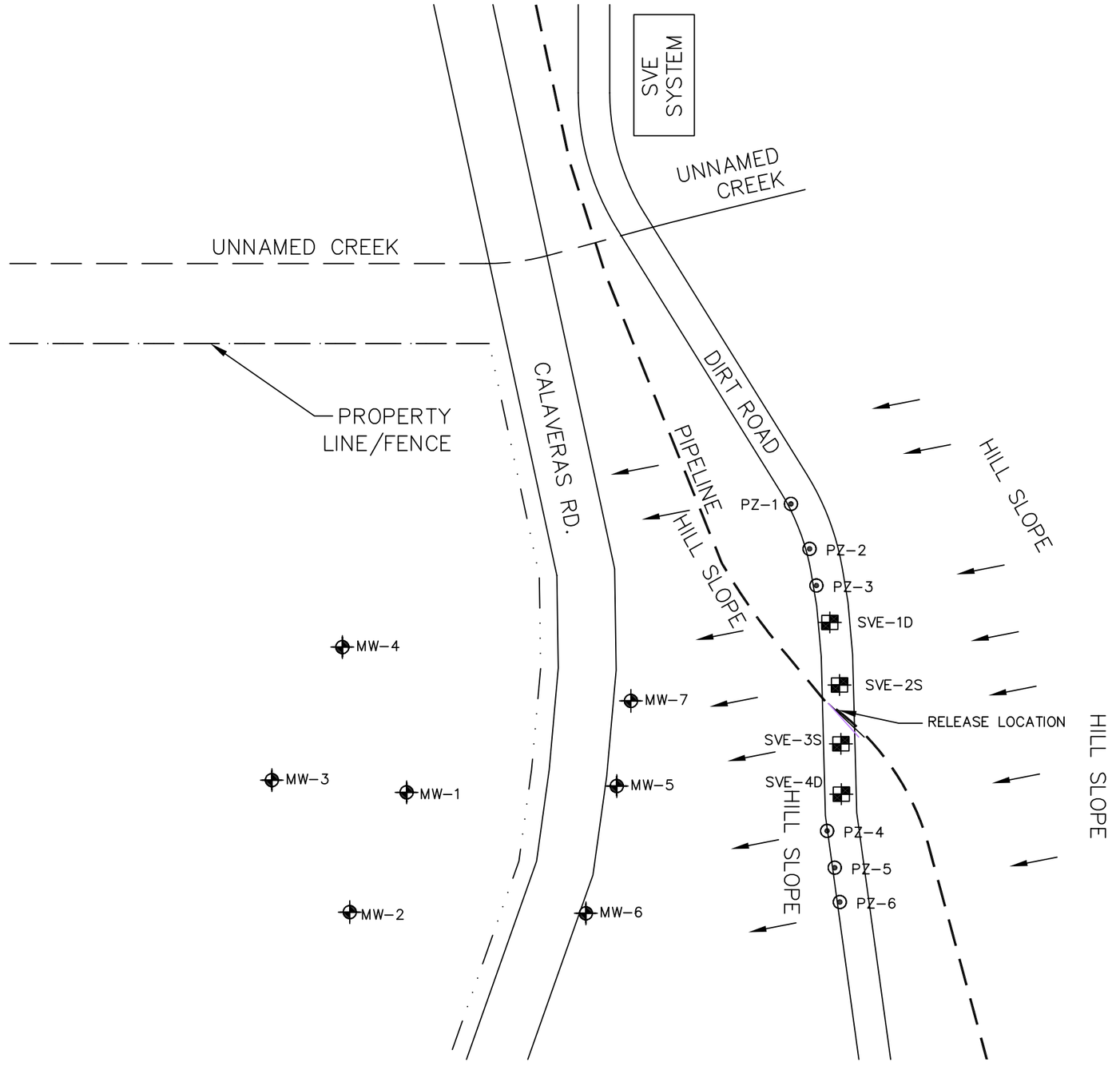
URS	CHEVRON PIPELINE COMPANY	SITE MAP CHEVRON SUNOL PIPELINE	Figure 2
	Project No. 26815217		

Feb 17, 2006 - 4:15pm
X:\x_env_waste\Chevron Pipe Line Company\Sunol Spill\Investigation Report\Draft Figures\Figure 2 sitemap.dwg

LEGEND:

- PIEZOMETERS
- MONITORING WELLS
- SVE WELLS
- PIPELINE

NORTH



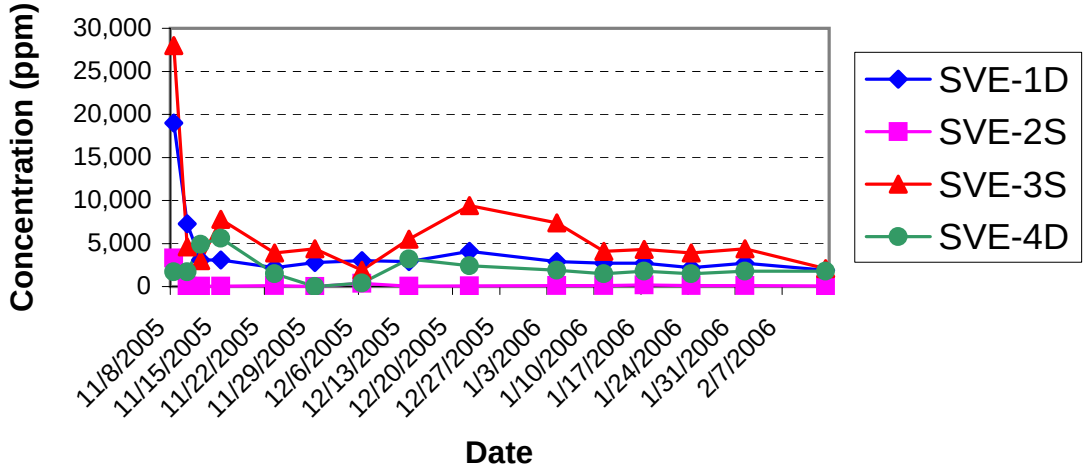
50' 0 50'

SCALE 1"= 50'

URS	CHEVRON PIPELINE COMPANY Project No. 26815217	SVE WELL LOCATIONS CHEVRON SUNOL PIPELINE	Figure 3

Feb 17, 2006 - 4:04pm
X:\x_env_waste\Chevron Pipe Line Company\Sunol Spill\Investigation Report\Draft Figures\Figure 3.dwg

Figure 4 Hydrocarbon Concentrations at Wellheads, Chevron Sunol Pipeline



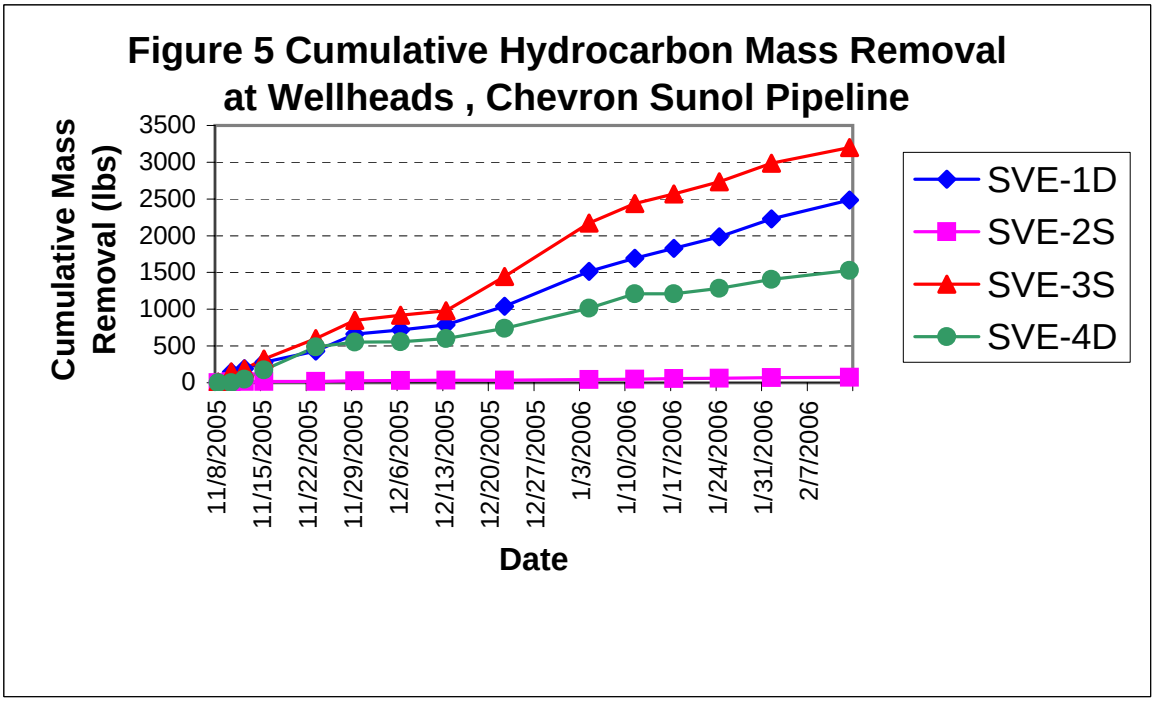


Figure 5 Cumulative Hydrocarbon Mass Removal at Wellheads , Chevron Sunol Pipeline
Cumulative Mass Removal (lbs)
3500
3000
2500
2000
1500
1000
500
0
11/8/2005
11/15/2005
11/22/2005
11/29/2005
12/6/2005
12/13/2005
12/20/2005
12/27/2005
1/3/2006
1/10/2006
1/17/2006
1/24/2006
1/31/2006
2/7/2006
Date
SVE-1D
SVE-2S
SVE-3S
SVE-4D

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

1. **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

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,

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

URS

1333 Broadway, Suite 800
Oakland, California 94612

LOG OF BORING

Borehole ID: SVE-1D

Total Depth: 20 ft bgs

PROJECT INFORMATION	DRILLING INFORMATION
Client: Chevron Pipeline	**Drilling Company:** Gregg Drilling & Testing
Site Location: Milepost 2.7 Calaveras Road, Sunol, California	**Driller:** Chris S.
Project Manager: Joe Morgan	**Type of Drilling Rig:** Marl M5T
RG: Leonard Niles	**Drilling Method:** Hollow Stem Auger
Geologist: Gregory White	**Sampling Method:** Blind Drilling - No Sampling
Job Number: 26815217.02400	**Date(s) Drilled:** November 5, 2004
BORING INFORMATION	
Groundwater Depth: 17 ft bgs (during drilling)	**Boring Location:** Dirt road on steep hillside above Calveras Road
Air Knife or Hand Auger Depth: 5 ft bgs	**Boring Diameter:** 10 inches
Coordinates: X 6168313.98 Y 2025831.92	**Boring Type:** Soil Vapor Extraction

Depth (ft bgs)	Symbol	Lithologic Description	USCS	Well Construction Details	Drilling Comments
0		HAND AUGER TO 5 FT BGS			10:30 Begin hand augering to 5 ft bgs. Ambient PID: 0.0 ppm
2				1-12.6 ft bgs: 4" Sch. 40 PVC riser.	
4					
6		BLIND DRILL WITH HSA RIG FROM 5-20 FT BGS. (SEE LOG OF CP-SB-12 FOR LITHOLOGY)		1.5-9.5 ft bgs: 95% cement / 5% bentonite grout.	10:35 Begin drilling with augers at 5 ft bgs.
8					
10				9.5-11.5 ft bgs: Baroid bentonite chip seal.	
12				12.6-19.6 ft bgs: 4" Sch 40 PVC 0.020" screen.	11:10 Drilling becomes very difficult at 12 ft bgs- into gravel, sand, and cobble zone.
14					
16	▽			11.5-20 ft bgs: #3 RMC sand.	17 ft bgs: Water encountered during drilling.
18					12:20 End of boring at 20 ft bgs. Begin well installation.
20				19.6-20 ft bgs: 4" PVC silt trap and well cap.	
		END OF BORING AT 20 FT BGS			
22					

URS

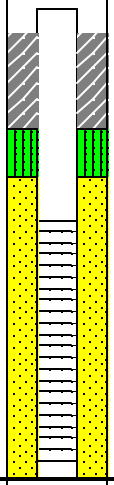
1333 Broadway, Suite 800
Oakland, California 94612

LOG OF BORING

Borehole ID: SVE-2S

Total Depth: 10.8 ft bgs

PROJECT INFORMATION	DRILLING INFORMATION
Client: Chevron Pipeline	**Drilling Company:** Gregg Drilling & Testing
Site Location: Milepost 2.7 Calaveras Road, Sunol, California	**Driller:** Chris S.
Project Manager: Joe Morgan	**Type of Drilling Rig:** Marl M5T
RG: Leonard Niles	**Drilling Method:** Hollow Stem Auger
Geologist: Gregory White	**Sampling Method:** Blind Drilling - No Sampling
Job Number: 26815217.02400	**Date(s) Drilled:** November 5, 2004
BORING INFORMATION	
Groundwater Depth: Not Encountered	**Boring Location:** Dirt road on steep hillside above Calveras Road
Air Knife or Hand Auger Depth: 5 ft bgs	**Boring Diameter:** 10 inches
Coordinates: X 6168314.18 Y 2025817.01	**Boring Type:** Soil Vapor Extraction

Depth (ft bgs)	Symbol	Lithologic Description	USCS	Well Construction Details	Drilling Comments
0		HAND AUGER TO 5 FT BGS		 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
2					
4					
6		BLIND DRILL WITH HSA RIG FROM 5-10.8 FT BGS. (SEE LOG OF CP-SB-11 FOR LITHOLOGY)			09:35 Begin drilling with augers at 5 ft bgs.
8					
10					09:50 End of boring at 10.8 ft bgs. Begin well installation.
12		**END OF BORING AT 10.8 FT BGS**			
14					
16					
18					
20					
22					

URS

1333 Broadway, Suite 800
Oakland, California 94612

LOG OF BORING

Borehole ID: SVE-3S

Total Depth: 11 ft bgs

PROJECT INFORMATION	DRILLING INFORMATION
Client: Chevron Pipeline	**Drilling Company:** Gregg Drilling & Testing
Site Location: Milepost 2.7 Calaveras Road, Sunol, California	**Driller:** Chris S.
Project Manager: Joe Morgan	**Type of Drilling Rig:** Marl M5T
RG: Leonard Niles	**Drilling Method:** Hollow Stem Auger
Geologist: Gregory White	**Sampling Method:** Blind Drilling - No Sampling
Job Number: 26815217.02400	**Date(s) Drilled:** November 5, 2004
BORING INFORMATION	
Groundwater Depth: Not Encountered	**Boring Location:** Dirt road on steep hillside above Calveras Road
Air Knife or Hand Auger Depth: 5 ft bgs	**Boring Diameter:** 10 inches
Coordinates: **X** 6168317.87 **Y** 2025774.02	**Boring Type:** Soil Vapor Extraction

Depth (ft bgs)	Symbol	Lithologic Description	USCS	Well Construction Details	Drilling Comments
0		HAND AUGER TO 5 FT BGS		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. 16:00 End of boring at 11 ft bgs. Begin well installation.
2					
4					
6		BLIND DRILL WITH HSA RIG FROM 5-11 FT BGS. (SEE LOG OF CP-SB-20 FOR LITHOLOGY)			
8					
10					
12		**END OF BORING AT 11.0 FT BGS**			
14					
16					
18					
20					
22					

URS

1333 Broadway, Suite 800
Oakland, California 94612

LOG OF BORING

Borehole ID: SVE-4D

Total Depth: 28 ft bgs

PROJECT INFORMATION	DRILLING INFORMATION
Client: Chevron Pipeline	**Drilling Company:** Gregg Drilling & Testing
Site Location: Milepost 2.7 Calaveras Road, Sunol, California	**Driller:** Bob D.
Project Manager: Joe Morgan	**Type of Drilling Rig:** Marl M5T
RG: Leonard Niles	**Drilling Method:** Hollow Stem Auger
Geologist: Gregory White	**Sampling Method:** Blind Drilling - No Sampling
Job Number: 26815217.02400	**Date(s) Drilled:** November 8, 2004
BORING INFORMATION	
Groundwater Depth: Not Encountered	**Boring Location:** Dirt road on steep hillside above Calveras Road
Air Knife or Hand Auger Depth: 5 ft bgs	**Boring Diameter:** 10 inches
Coordinates: X 6168318.74 Y 2025761.01	**Boring Type:** Soil Vapor Extraction

Depth (ft bgs)	Symbol	Lithologic Description	USCS	Well Construction Details	Drilling Comments
0		HAND AUGER TO 5 FT BGS			09:05 Begin hand augering to 5 ft bgs. Ambient PID: 0.0 ppm
2				1.0-17.6 ft bgs: 4" Sch. 40 PVC riser.	
4					
6		BLIND DRILL WITH HSA RIG FROM 5-28 FT BGS. (SEE LOG OF CP-SB-21 FOR LITHOLOGY)			09:25 Begin drilling with augers at 5 ft bgs.
8				1.4-15.0 ft bgs: 95% cement / 5% bentonite grout.	
10					
12					
14					
16				15.0-16.0 ft bgs: Baroid bentonite chip seal.	
18					10:00 Drilling becomes very difficult at 18 ft bgs- through tight silt zone.
20				17.6-27.6 ft bgs: 4" Sch 40 PVC 0.020" screen.	
22					
24				16.0-28.0 ft bgs: #3 RMC sand.	
26				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.
28		**END OF BORING AT 28 FT BGS**			

URS

1333 Broadway, Suite 800
Oakland, California 94612

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 INFORMATION

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

Depth (ft bgs)	Symbol	Lithologic Description	USCS	PID (ppm)	Sample ID	Recovery	Comments
0		SILTY SAND: Brown, dry, loose, silty fine sand with some fine gravel and roots.	SM		10:00 CP-SB-11 @ 0.5 - 1		Hand auger from 0 - 5'
2					10:05 CP-SB-11 @ 1 - 1.5		
4					10:10 CP-SB-11 @ 2.5 - 3		Begin direct push drilling at 5'
6				0.0	10:30 CP-SB-11 @ 5.5 - 6		
8							
10					10:42 CP-SB-11 @ 10-10.5		Driller switched from dual tube to macro sleeve due to poor recovery
12		SANDY SILT: Brown, moist, loose fine sandy silt with fine gravel.	ML	0.0			Drilling resumes with macro sampler at 12' bgs
14		SAND: Light brown, dry, loose, very fine sand with a slight odor.	SP	21			
16		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 - 16		
18				705			
20		SAND: Gray, moist, very dense, fine sand.	SP		11:16 CP-SB-11 @ 19.5 - 20		
22				0.0			Refusal at 22.5' bgs. Install 3/4" PVC to see if any groundwater will enter borehole.

URS

1333 Broadway, Suite 800
Oakland, California 94612

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 INFORMATION

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

Depth (ft bgs)	Symbol	Lithologic Description	USCS	PID (ppm)	Sample ID	Recovery	Comments
0		SILTY SAND: Brown, dry, loose, silty fine sand with some fine gravel and roots.	SM		13:50 CP-SB-12 @ 0.5 - 1		Hand auger from 0 - 5'
2					13:57 CP-SB-12 @ 1 - 1.5		
4					14:00 CP-SB-12 @ 2 -2.5		
6				0	14:25 CP-SB-12 @ 5 - 5.5		Begin advancing borings with Geoprobe at 5'
8							
10		SILTY SAND: Light brown, moist, loose, silty very fine sand with some medium gravel.	SM	16	14:30 CP-SB-12 @ 10 - 10.5		
12		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.	GP/ SP				
14				3.0			
16		SAND: Light brown to gray, moist, dense, medium sand with trace amounts of gravel and some iron staining.	SP		14:38 CP-SB-12 @ 15 - 15.5		
18		same as above		0			
20				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.
22							

Depth (ft bgs)	Symbol	Lithologic Description	USCS	PID (ppm)	Sample I.D.	Recovery	Comments
24				0			▼
26		GRAVELLY CLAY: Brown, moist to wet, coarse gravelly, fine sandy clay.	GC/ CL				End borehole at 27' bgs. Groundwater encountered at ~24' bgs.
28							
30							

URS

1333 Broadway, Suite 800
Oakland, California 94612

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 INFORMATION

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

Depth (ft bgs)	Symbol	Lithologic Description	USCS	PID (ppm)	Sample ID	Recovery	Comments
0		SILTY SAND: Brown, dry to moist, silty fine sand	SM		09:40 CPSB20 @ 0.5-1		Begin hand augering to 5 feet bgs
2					09:45 CPSB20 @ 1.5-2		
4					09:50 CPSB20 @ 2.5-3		Begin direct push method
6		GRAVELLY SAND: Brown, moist, loose fine sand with gravel and trace roots	SP	22.6	10:25 CPSB20 @ 5-5.5		
8		SILTY SAND: Gray, moist, fine to coarse gravelly silt	ML				
10		GRAVELLY SILTY SAND: Brown, moist, silty fine sand with gravel	GM	8.6	10:35 CPSB20 @ 10-10.5		
12		SILTY GRAVELLY SAND: Light brown, moist, loose, silty gravelly fine sand	SM				
14		SAND: Light brown, moist, loose, fine sand	SP	18.6			
16		SILT: Brown, moist, friable, silt as above with trace sand and gravel	ML		11:00 CPSB20 @ 15-15.5		
18				2.5			
20		SILTY SAND: Brown, dry to moist, friable, silty fine sand with some gravel	SM		11:15 CPSB20 @ 19.5-20		
22				5.7			

Depth (ft bgs)	Symbol	Lithologic Description	USCS	PID (ppm)	Sample I.D.	Recovery	Comments
24		as above except light brown			12:00 CPSB20 @ 25-25.5		
26							
28		SANDY SILT: Brown with some yellow mottling, moist, very stiff, fine sandy silt with some calcite veins	ML				
		GRAVELLY SANDY SILT: Brownish gray, moist, very stiff, gravelly fine sandy silt	GM/ ML				
30		SAND: Light brown, moist, fine sand	SP				
32		GRAVELLY SAND: Light brown, moist, gravelly fine sand	GP/ SP				
34		SANDY GRAVEL: Brown, moist, sandy gravel with cobbles	SP/ GP	1236	12:15 CPSB20 @ 30-30.5		▼
36		GRAVELLY SILT: Brown and gray with some red staining, wet, stiff, gravelly silt	GM/ ML				Sample is wet at 36' bgs. No standing water in borehole. Will try to advance borehole in order to get a good groundwater sample.
38		SILT: Gray, moist, very hard silt	ML	1420			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.
40							
42							
44							
46							

URS

1333 Broadway, Suite 800
Oakland, California 94612

LOG OF BORING

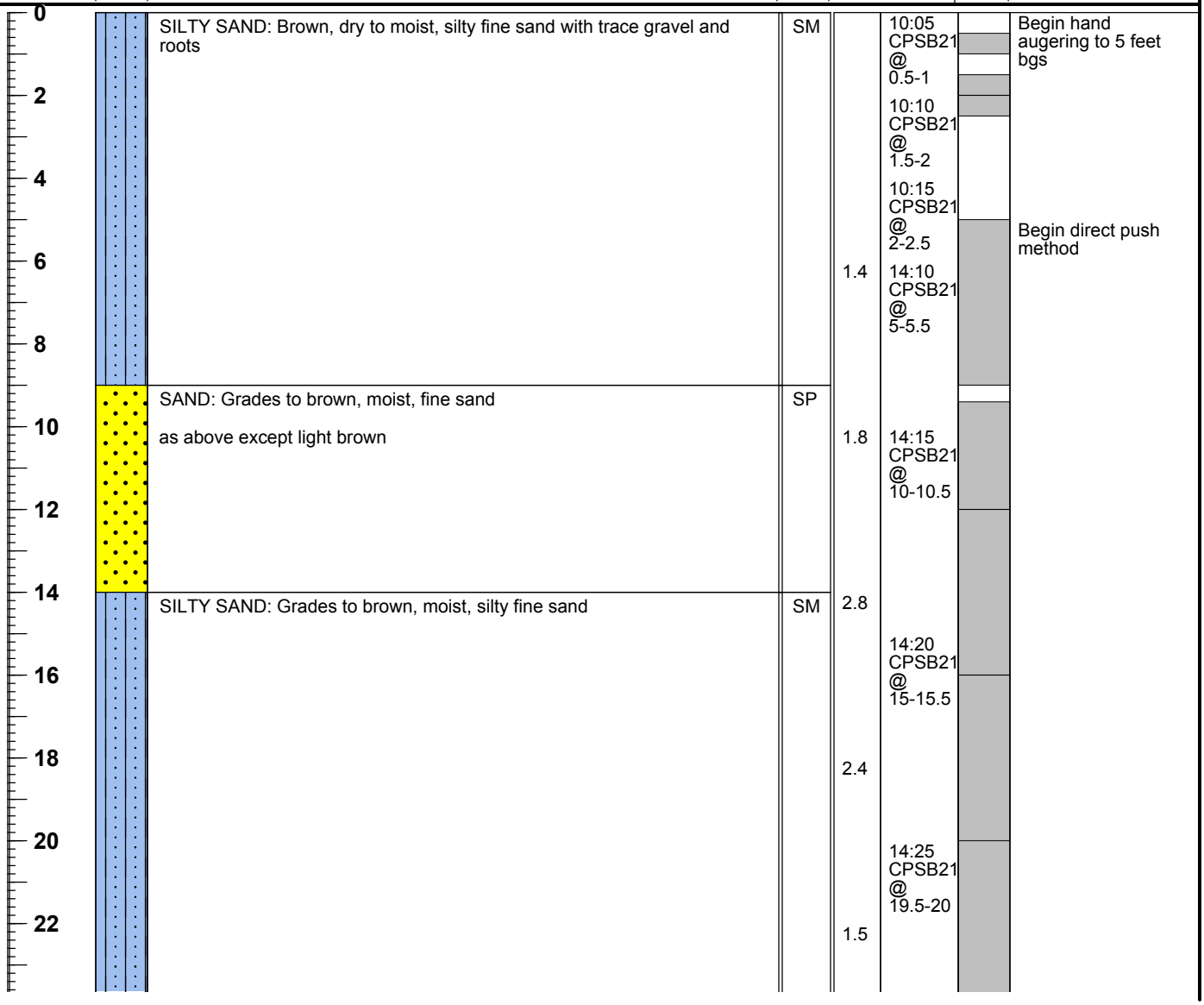
Borehole ID: CP-SB-21

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 INFORMATION

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



Depth (ft bgs)	Symbol	Lithologic Description	USCS	PID (ppm)	Sample I.D.	Recovery	Comments
24							
26		SANDY SILT: Brown, moist, very stiff to hard, fine sandy silt	ML	6.1	14:30 CPSB21 @ 25-25.5		
28		SILTY SAND: Brown, moist, medium dense, silty fine sand	SM				
30				1.4			
32		as above except, light brown, medium stiff, with gravel					
34		GRAVELLY SAND: Gray and brown, moist, fine to coarse gravelly sand, some cobbles	SP/ GP	9.9	15:15 CPSB21 @ 38-38.5		
36							
38				316			Refusal on rock at 39' bgs. Insert 3/4" PVC well to see if groundwater enters the borehole.
40							
42							

Appendix C
BAAQMD Permit for the SVE System

BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

FILE COPY

AUG 2 4 2005

August 16, 2005

cc: GK KW scan file

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

Attention: **Gowri S. Kowtha**

Application Number: **12773**
Plant Number: **17101**
Equipment Location: **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 MANAGEMENT DISTRICT SINCE 1955

PERMIT TO OPERATE

PLANT No. 17101

SOURCE No. 1

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

Subject to attached condition no. c22399 [1]

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**

By Scott Lutz

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 condition.

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.baaqmd.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 District Rules and Regulations.

Permit Holder Must Sign Here

BAY AREA
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MANAGEMENT
DISTRICT

COND# 22399

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

SPARE THE AIR 50 1955-2005 FOR A HEALTHIER FUTURE

Management Policy]

6. Precursor Organic Compound (POC) emissions from Source S-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 per 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 oxidizer and within 24 hours after start-up of the thermal oxidizer 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 benzene 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

SPARE THE AIR 50 1955-2005 FOR A HEALTHIER FUTURE

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.

b. 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

COPY

STRATUS ENVIRONMENTAL, INC.

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,

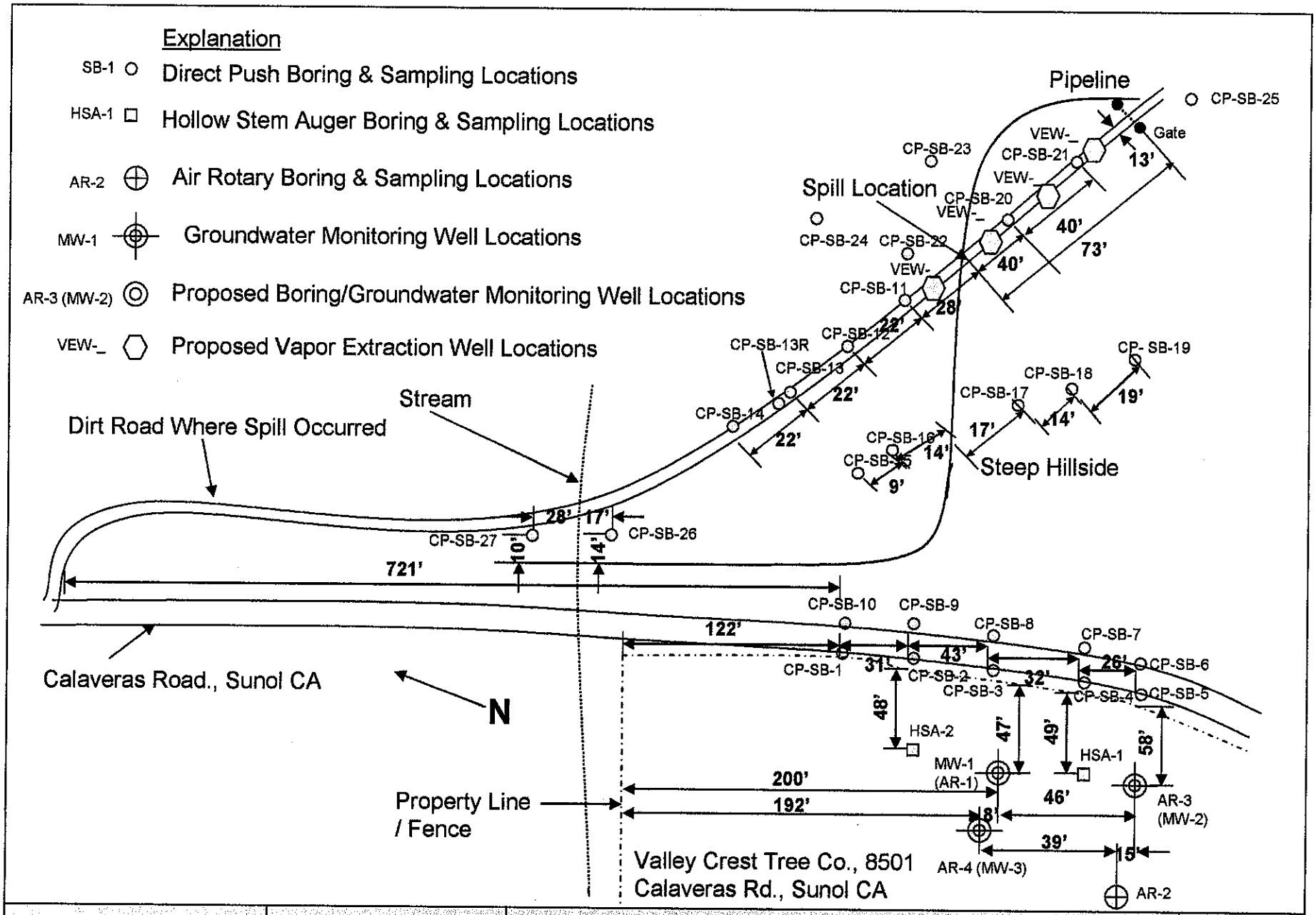
STRATUS ENVIRONMENTAL, INC.

Kiran Nagaraju
Staff Engineer

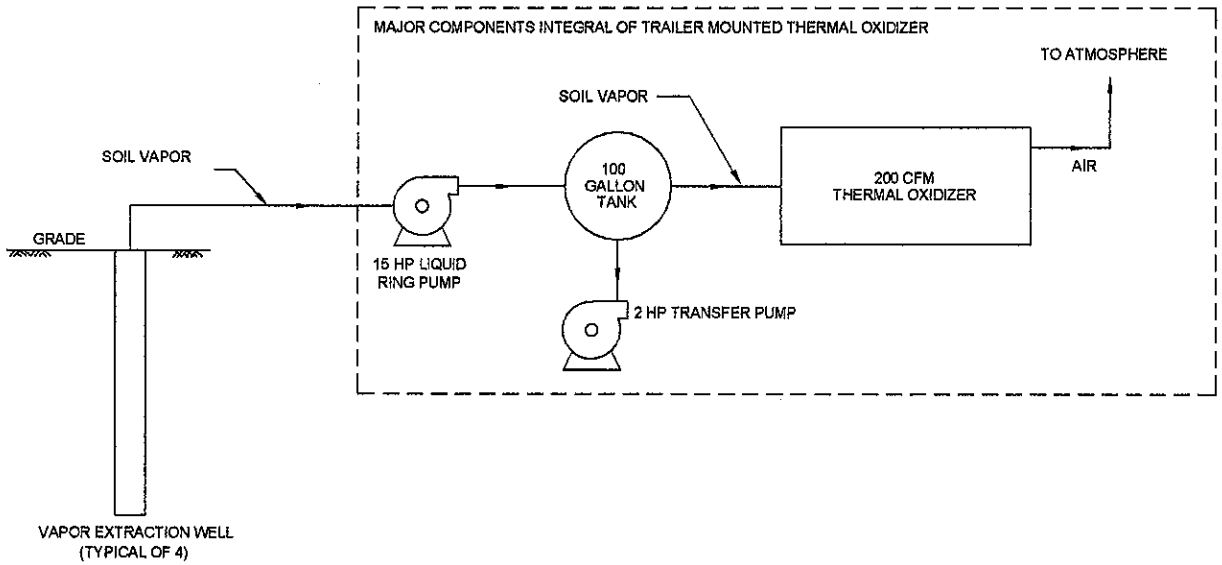
Gowri S. Kowtha, P.E.
Project Manager

Attachments Figure 1 Site Plan – Boring and Proposed Well Locations
Figure 2 Process Flow Diagram

cc: Ms. Angela Liang, URS Corporation Americas



URS Corporation Oakland, CA	Not to Scale Revised 11/3/05	**Boring and Proposed Well Locations** **Chevron Pipeline Company** **Sunol Pipeline Spill Area, Sunol, California**	Figure 1



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

COPY

STRATUS ENVIRONMENTAL, INC.

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.

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-of-custody 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.

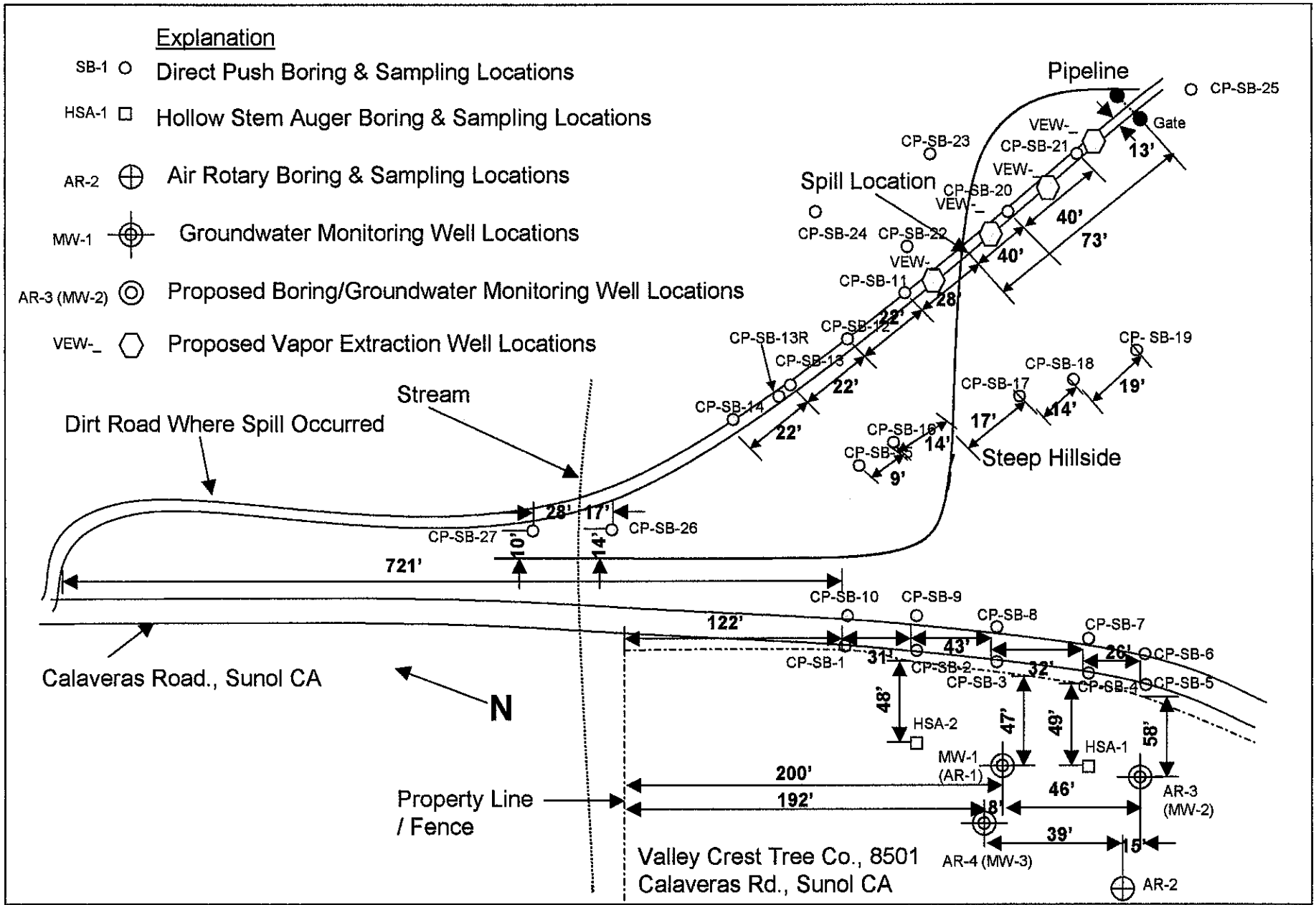
Kiran Nagaraju
Staff Engineer

Gowri S. Kowtha, P.E.
Project Manager

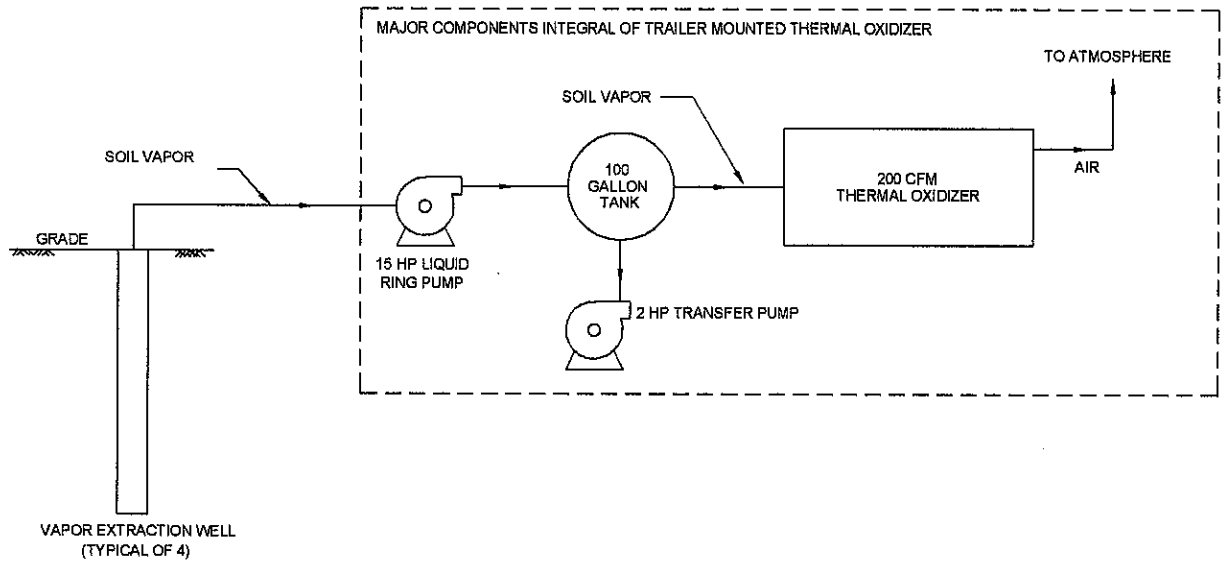
Attachments

Figure 1	Site Plan – Boring and Proposed Well Locations
Figure 2	Process Flow Diagram
Appendix A	Analytical Results and Chain-of-Custody Documentation

cc: Ms. Angela Liang, URS Corporation Americas



URS Corporation Oakland, CA	Not to Scale Revised 11/3/05	**Boring and Proposed Well Locations** **Chevron Pipeline Company** **Sunol Pipeline Spill Area, Sunol, California**	Figure 1



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

Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (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 Limit	Date Sampled	Date 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/m³	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-Xylene	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 Scholl Randy Gardner Walter Hinchman

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

11/09/05
Report Date

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

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

Gowri Kowtha
TEL : (530) 676-6001 x
FAX : (530) 676-6005
EMail : gkowtha@stratusinc.net

EDD Required : Yes

Sampled by : C. Hill

Report Attention : Gowri Kowtha
CC Report :

Job : Chevron Pipeline
PO :

Client's COC # : 7366

Cooler Temp : N/A °C

Date Printed: **09-Nov-05**

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles ORG	SUB	TAT	PWS #	Requested Tests TPH/P_A	VOC_A							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
Logged in by:	Graciela Navarrete	G. Navarrete	Alpha Analytical, Inc.	11-9-05 9:35

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 of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information:
Name Stratus ENV
Address 3330 Cameron Pk Dr
City, State, Zip Cameron Pk
Phone Number 530-676-6004 Fax 530-676-6005

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
Phone (775) 355-1044
Fax (775) 355-0406

Samples Collected From Which State?
AZ ___ CA X NV ___ WA ___
ID ___ OR ___ OTHER ___

Page # 1 of 1

7366

Client Name Chevron Pipeline	P.O. #	Job #
Address	EMail Address	
City, State, Zip Sunol	Phone #	Fax #

Required QC Level? I II III IV

EDD / EDF? YES ___ NO ___

Global ID # ___

Time Sampled	Date Sampled	Matrix* See Key Below	Office Use Only Lab ID Number	Sample Description (Sampled by CHILL; Report Attention Cowan)	TAT	Field Filtered	Total and type of containers ** See below	Analyses Required: TPHG/BTEX	5 OXYS						REMARKS
1236	11/8/05	OT	05110921-01	SYS EFF Air	24		1-T	+	+						24 HR

ADDITIONAL INSTRUCTIONS: Ship Fed EX

	Signature	Print Name	Company	Date	Time
Relinquished by	[signature]	CHILL	Stratus	11-8-05	1500
Received by	Graciela Navarrete	G. Navarrete	Alpha	11-9-05	9:35
Relinquished by					
Received by					
Relinquished by					
Received by					

*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

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

Appendix E
Laboratory Analytical Reports

Lancaster Laboratories

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

Analysis Report

ANALYTICAL RESULTS

Prepared for:

Chevron 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 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

Lancaster Laboratories

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Analysis Report

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

Respectfully Submitted,

Rachel R. Cochis
Group Leader

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. AQ 4643396

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
Reported: 11/10/2005 at 16:10
Discard: 12/11/2005

Chevron Pipeline Co.
2811 Hayes Road
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.	19,000.	100.	ppm(v)	10
	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.					
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 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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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 Tedlar	EPA TO14A	1	11/09/2005 14:19	Jeffrey B Smith	5000

Lancaster Laboratories

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Analysis Report

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
Reported: 11/10/2005 at 16:10
Discard: 12/11/2005

Chevron Pipeline Co.
2811 Hayes Road
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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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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Analysis Report

Lancaster Laboratories Sample No. AQ 4643398

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
Reported: 11/10/2005 at 16:10
Discard: 12/11/2005

Chevron Pipeline Co.
2811 Hayes Road
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.	28,000.	100.	ppm(v)	10
	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.					
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 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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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 Tedlar	EPA TO14A	1	11/09/2005 15:34	Jeffrey B Smith	5000

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. AQ 4643399

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
Reported: 11/10/2005 at 16:10
Discard: 12/11/2005

Chevron Pipeline Co.
2811 Hayes Road
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.	11,000.	100.	ppm(v)	10
	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.					
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 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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Lancaster Laboratories

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Analysis Report

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 Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: C0531330A	Sample number(s): 4643396-4643399							
Benzene	1.0U	1.0	ppb(v)	108		76-145		
Toluene	1.0U	1.0	ppb(v)	110		62-152		
Ethylbenzene	1.0U	1.0	ppb(v)	107		60-142		
m/p-Xylene	1.0U	1.0	ppb(v)	107		58-152		
o-Xylene	1.0U	1.0	ppb(v)	112		63-156		
Batch number: M053131ZA	Sample number(s): 4643397							
>C4-C10 Hydrocarbons hexane	10.U	10.	ppm(v)					
Batch number: M053141ZA	Sample number(s): 4643396,4643398-4643399							
>C4-C10 Hydrocarbons hexane	10.U	10.	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.

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

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

> greater than

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

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

Analytical test results 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.

Lancaster Laboratories

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Analysis Report

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	Lancaster Labs Number
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

Lancaster Laboratories

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Analysis Report

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

Respectfully Submitted,

Michele J. Smith

Michele J. Smith
Group Leader

Lancaster Laboratories

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Analysis Report

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
Reported: 11/14/2005 at 17:31
Discard: 12/15/2005

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution 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 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.	32.	20.	ppm(v)	2

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07199	TO-14A VOA Extended List	EPA TO14A	1	11/11/2005 14:04	Jeffrey B Smith	100
07199	TO-14A VOA Extended List	EPA TO14A	1	11/11/2005 14:46	Jeffrey B Smith	10
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	11/13/2005 22:58	George M Main	2

Lancaster Laboratories

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Analysis Report

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
Reported: 11/14/2005 at 17:31
Discard: 12/15/2005

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
07199	TO-14A VOA Extended List					
07238	Benzene	71-43-2	120,000.	10,000.	ppb(v)	10000
07250	Toluene	108-88-3	710,000.	10,000.	ppb(v)	10000
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 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.	7,300.	20.	ppm(v)	2

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Lancaster Laboratories

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Analysis Report

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
Reported: 11/14/2005 at 17:31
Discard: 12/15/2005

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution 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 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.	1,700.	20.	ppm(v)	2

State of California Lab Certification No. 2116

Laboratory Chronicle

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

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Analysis Report

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
Reported: 11/14/2005 at 17:31
Discard: 12/15/2005

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution 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 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.	4,600.	200.	ppm(v)	20

State of California Lab Certification No. 2116

Laboratory Chronicle

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

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Analysis Report

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
Reported: 11/14/2005 at 17:31
Discard: 12/15/2005

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Limit of Quantitation	Units	Dilution 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 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.	20.	U	20.	ppm(v)	2

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07199	TO-14A VOA Extended List	EPA TO14A	1	11/11/2005 19:33	Jeffrey B Smith	100
07199	TO-14A VOA Extended List	EPA TO14A	1	11/11/2005 20:15	Jeffrey B Smith	10
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	11/14/2005 00:58	George M Main	2

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Analysis Report

Quality Control Summary

Client Name: Chevron Pipeline Co.
Reported: 11/14/05 at 05:31 PM

Group Number: 967032

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: A0531530A	Sample number(s): 4646049-4646053							
Benzene	1.0U	1.0	ppb(v)	115		76-145		
Toluene	1.0U	1.0	ppb(v)	124		62-152		
Ethylbenzene	1.0U	1.0	ppb(v)	117		60-142		
m/p-Xylene	1.0U	1.0	ppb(v)	117		58-152		
o-Xylene	1.0U	1.0	ppb(v)	118		63-156		
Batch number: M053181ZA	Sample number(s): 4646049-4646053							
>C4-C10 Hydrocarbons hexane	10.U	10.	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 Generic Analysis Request/Chain of Custody

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For Lancaster Laboratories use only
Acct. #: 11875 Sample #: 4646049-53 SCR#: 004008

967032

Facility #: Chevron Pipeline
Site Address: Calaveras Ave Sunol, CA
Chevron PM: _____ Lead Consultant: _____
Consultant/Office: URS - Oakland
Consultant Prj. Mgr.: Joe Morgan
Consultant Phone #: 510-893-3600 Fax #: 510-874-3268
Sampler: Greg White & Angela Liang
Service Order #: _____ ☐ Non SAR: _____

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water	Matrix: Oil	Matrix: Air	Total Number of Containers	BTEX + MTBE 8021 ☐ 8260 ☐ Naphth ☐	8260 full scan	Oxygenates ___	TPH G X by TO-18	TPH D ___ Extended Rng. ☐ Silica Gel Cleanup ☐	Lead Total ☐ Diss. ☐ Method ___	VPH/EPH	NWTPH H HCID ☐ quantification	BTEX by TO-14
SVE-2S-11/10/05	11/10/05	10:10	X				X	X	1				X					X
SVE-1D-11/10/05	11/10/05	10:00	X				X		1				X					X

Analyses Requested
Preservation Codes

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

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds
8021 MTBE Confirmation
☐ Confirm MTBE + Naphthalene
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Comments / Remarks
Email results to Joe Morgan & Angela Liang

24 hr turn

Turnaround Time Requested (TAT) (please circle)
STD. TAT 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I - Full
Type VI (Raw Data) Disk / EDD
WIP (RWQCB) Standard Format
Disk _____ Other.

Relinquished by:	Date	Time	Received by:	Date	Time
Greg White	11/10/05	14:00			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by Commercial Carrier: UPS FedEx Other			Received by: Kathy Binkley	Date 11-10-05	Time 0915
Temperature Upon Receipt N/A °C			Custody Seals Intact? Yes No N/A		

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.

3566 Rev. 1/31/02

Chevron Generic Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

Acct. #: 11875 For Lancaster Laboratories use only Sample #: 4646049-53 SCR#: 004005

967032

Facility #: Chevron Pipeline
Site Address: Calaveras Ave Sunol, CA
Chevron PM: _____ Lead Consultant: _____
Consultant/Office: URS- Oakland
Consultant Prj. Mgr.: Joe Morgan
Consultant Phone #: 510-893-3600 Fax #: 510-874-3268
Sampler: Greg White & Angela Liang
Service Order #: _____ ☐ Non SAR: _____

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water (☐ Potable ☐ NPDES)	Matrix: Oil ☐ Air	Total Number of Containers	Analyses Requested / Preservation Codes: BTEX + MTBE 8021 ☐ 8260 ☐ Naphth ☐	8260 full scan	Oxygenates ___	TPH G ___ TO-18	TPH D ___ (☐ Extended Rng. ☐ Silica Gel Cleanup)	Lead Total ☐ Diss. ☐ Method ___	VPH/EPH	NWTPH H HCID ☐ quantification	BTEX by TO-14
SVE-4D-11/10/05	11/10/05	10:25	X				X					X					X
SVE-3S-11/10/05	11/10/05	10:20	X				X					X					X

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

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

8021 MTBE Confirmation
☐ Confirm MTBE + Naphthalene
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Comments / Remarks
Email Results to Joe Morgan & Angela Liang

24 hr turn

Turnaround Time Requested (TAT) (please circle)

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

Data Package Options (please circle if required)

QC Summary	Type I - Full
Type VI (Raw Data)	Disk / EDD
WIP (RWQCB)	Standard Format
Disk	_____ Other.

	Date	Time		Date	Time
Relinquished by: Greg White	11/10/05	14:00	Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by:		
Relinquished by Commercial Carrier: UPS FedEx Other _____			Received by: Kathy Binkley	11-11-05	0915
Temperature Upon Receipt N/A C°			Custody Seals Intact? Yes No N/A		

Chevron Generic Analysis Request/Chain of Custody

004007

Lancaster Laboratories
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For Lancaster Laboratories use only
Acct. #: 11875 Sample #: 4646049-53 SCR#:

967032

Facility #: Chevron Pipeline
Site Address: Calaveras Rd Sunol, CA
Chevron PM: Lead Consultant:
Consultant/Office: URS-Oakland
Consultant Prj. Mgr.: Joe Morgan
Consultant Phone #: 510-893-3600 Fax #: 510-874-3268
Sampler: Greg White
Service Order #: ☐ Non SAR:

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water	Matrix: Oil ☐ Air ☒	Total Number of Containers	Analyses Requested / Preservation Codes: BTEX + MTBE 8021 ☐ 8260 ☐ Naphth ☐	8260 full scan	Oxygenates ___	TPH G ___	TPH D ☐ Extended Rng. ☐ Silica Gel Cleanup ☐	Lead Total ☐ Diss. ☐ Method ___	VPH/EPH	NWTPH H HCID ☐ quantification	BTEX → TO-14	TPH-g → TO-18
Influent- 11/10/05	11/10/05	10:35	X				X										X	X

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

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

8021 MTBE Confirmation
☐ Confirm MTBE + Naphthalene
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Comments / Remarks
Email results to Joe Morgan & Angela Liang

24 hr turn

Turnaround Time Requested (TAT) (please circle)
STD. TAT 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I - Full
Type VI (Raw Data) Disk / EDD
WIP (RWQCB) Standard Format
Disk ____ Other.

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	11/10/05	14:00			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by Commercial Carrier: UPS FedEx Other			Received by: Kathy Binkley	Date 11-11-05	Time 0915
Temperature Upon Receipt N/A C°			Custody Seals Intact? Yes No		N/A

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

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

> greater than

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

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

Analytical test results 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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Analysis Report

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 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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Analysis Report

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

Respectfully Submitted,

Rachel R. Cochis
Group Leader

Lancaster Laboratories

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Analysis Report

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

Submitted: 11/14/2005 09:45
Reported: 11/15/2005 at 16:59
Discard: 12/16/2005

Account Number: 11875

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final 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 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.	31.	2.0	ppm(v)	110.	7.0	mg/m3	2

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Lancaster Laboratories

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Analysis Report

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

Submitted: 11/14/2005 09:45
Reported: 11/15/2005 at 16:59
Discard: 12/16/2005

Account Number: 11875

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final 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)	2,000,000.	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)	1,000,000.	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 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.	3,100.	10.	ppm(v)	11,000.	35.	mg/m3	10

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Lancaster Laboratories

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Analysis Report

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
Reported: 11/15/2005 at 16:59
Discard: 12/16/2005

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final 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)	2,300,000.	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)	1,100,000.	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 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.	3,000.	10.	ppm(v)	11,000.	35.	mg/m3	10

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Lancaster Laboratories

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Analysis Report

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
Reported: 11/15/2005 at 16:59
Discard: 12/16/2005

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final 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 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.	4,900.	2.0	ppm(v)	17,000.	7.0	mg/m3	2

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: Chevron Pipeline Co.
Reported: 11/15/05 at 04:59 PM

Group Number: 967323

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: A0531830A	Sample number(s): 4648219-4648222							
Benzene	N.D.	0.20	ppb(v)	113		76-145		
Toluene	N.D.	0.20	ppb(v)	111		62-152		
Ethylbenzene	N.D.	0.20	ppb(v)	103		60-142		
m/p-Xylene	N.D.	0.20	ppb(v)	107		58-152		
o-Xylene	N.D.	0.20	ppb(v)	111		63-156		
Batch number: M053181ZA	Sample number(s): 4648219,4648222							
>C4-C10 Hydrocarbons hexane	N.D.	1.0	ppm(v)					
Batch number: M053191ZA	Sample number(s): 4648220-4648221							
>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.

SEVERN TRENT SERVICES

STL Chicago
2417 Bond Street
University Park, IL 60466
Phone: 708-534-5200
Fax: 708-534-5211

Report To:
Contact: Joe Morgan
Company: URS-Oakland
Address:
Phone: 510-893-3600
Fax: 510-874-3268
E-Mail:

Bill To: 11875/967323/4648319-22

Contact:
Company:
Address:
Phone:
Fax:
PO#: Quote:

Shaded Areas For Internal Use Only ____ of ____

Lab Lot#

Package Sealed	Samples Sealed
Yes No	Yes No
Received on Ice	**Samples Intact**
Yes No	Yes No
Temperature °C of Cooler	
Within Hold Time	**Preserv. Indicated**
Yes No	Yes No NA
pH Check OK	**Res Cl_2 Check OK**
Yes No NA	Yes No NA
Sample Labels and COC Agree	
Yes No	COC not present

Sampler Name: Greg White
Signature:
Project Name: Chevron Pipeline
Project Number:
Project Location: Calaveras Ave Suisol, CA
Lab PM:
Date Required
Hard Copy: ____/____/____
Fax: ____/____/____

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	BTEX by TO-14	TPHs by TO-18	Refrg #	# / Cont.	Volume	Preserv
		SVE-2S-11/12/05	11/12/05		A	G	X	X				
		SVE-1D-11/12/05	11/12/05		A	G	X	X				

Additional Analyses / Remarks

Email Results to
Joe Morgan & Angela Liang

RELINQUISHED BY: Greg White COMPANY: URS DATE: 11/12/05 TIME: 08:30
RELINQUISHED BY: COMPANY: DATE: TIME:
RECEIVED BY: COMPANY: DATE: TIME:
RECEIVED BY: David Splan COMPANY: DATE: 11-14-05 TIME: 0945

Matrix Key
WW = Wastewater
W = Water
S = Soil
SL = Sludge
MS = Miscellaneous
OL = Oil
A = Air
SE = Sediment
SO = Solid
DS = Drum Solid
DL = Drum Liquid
L = Leachate
WI = Wipe
O = ____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other ____

Preservative Key
1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. Cool to 4°
7. None

COMMENTS
24 hr TAT

Date Received / /
Courier: **Hand Delivered** ☐
Bill of Lading

Chevron Generic Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

004017

Acct. #: 11875 For Lancaster Laboratories use only Sample #: 464821-22 967323 SCR#:

Facility #: Chevron Pipeline
Site Address: Calavera Ave Sunol, CA
Chevron PM: Lead Consultant:
Consultant/Office: URS- Oakland
Consultant Prj. Mgr.: Joe Morgan
Consultant Phone #: 510-893-3600 Fax #: 510-874-3268
Sampler: Greg Ulte
Service Order #: ☐ Non SAR:

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water (☐ Potable ☐ NPDES)	Matrix: Oil ☐ Air ☒	Total Number of Containers	Analyses Requested / Preservation Codes: BTEX + MTBE 8021 ☐ 8260 ☐ Naphth ☐	8260 full scan	Oxygenates ___	TPH G ☒ TO-18	TPH D ☐ Extended Rng. ☐ Silica Gel Cleanup	Lead Total ☐ Diss. ☐ Method ___	VPH/EPH	NWTPH H HCID ☐ quantification	BTEX by TO-14			
[redacted] SVE-35-11/12/05	11/12/05	08:50	/				X	1				X					X			
SVE-40 11/12/05	11/12/05	07:00	/				X	1				X					X			

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

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

8021 MTBE Confirmation
☐ Confirm MTBE + Naphthalene
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Comments / Remarks
Email Results to Angela Liang & Joe Morgan

Turnaround Time Requested (TAT) (please circle)
STD. TAT | 72 hour | 48 hour
24 hour | 4 day | 5 day

Data Package Options (please circle if required)
QC Summary | Type I - Full
Type VI (Raw Data) | Disk / EDD
WIP (RWQCB) | Standard Format
Disk | _____ Other.

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	11/12/05	08:30			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: [signature]	Date	Time
Relinquished by Commercial Carrier: UPS FedEx Other			Received by:	Date	Time
Temperature Upon Receipt N/A C°			Custody Seals Intact? Yes No N/A		

11-14-05 0945

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.

3566 Rev. 1/31/02

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

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

> greater than

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

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

Analytical test results 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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Analysis Report

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	Lancaster Labs Number
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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Analysis Report

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

Respectfully Submitted,

Rachel R. Cochis
Group Leader

Lancaster Laboratories

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Analysis Report

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
Reported: 11/17/2005 at 16:46
Discard: 12/18/2005

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final 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)	1,200,000.	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 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.	3,100.	1.0	ppm(v)	11,000.	3.5	mg/m3	1

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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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Analysis Report

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
Reported: 11/17/2005 at 16:46
Discard: 12/18/2005

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final 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 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.	26.	1.0	ppm(v)	92.	3.5	mg/m3	1

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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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Analysis Report

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
Reported: 11/17/2005 at 16:46
Discard: 12/18/2005

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final 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 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.	5,600.	2.0	ppm(v)	20,000.	7.0	mg/m3	2

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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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Analysis Report

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
Reported: 11/17/2005 at 16:46
Discard: 12/18/2005

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final 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)	1,600,000.	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 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.	7,800.	2.0	ppm(v)	27,000.	7.0	mg/m3	2

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Lancaster Laboratories

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Analysis Report

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
Reported: 11/17/2005 at 16:46
Discard: 12/18/2005

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final 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 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.	18.	2.0	ppm(v)	62.	7.0	mg/m3	2

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: Chevron Pipeline Co.
Reported: 11/17/05 at 04:46 PM

Group Number: 967555

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: A0532030A	Sample number(s): 4649338-4649342							
Benzene	N.D.	0.20	ppb(v)	97		76-145		
Toluene	N.D.	0.20	ppb(v)	109		62-152		
Ethylbenzene	N.D.	0.20	ppb(v)	101		60-142		
m/p-Xylene	N.D.	0.20	ppb(v)	106		58-152		
o-Xylene	N.D.	0.20	ppb(v)	108		63-156		
Batch number: M053201ZA	Sample number(s): 4649338-4649342							
>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.

11875/967555/4649338-42

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

Chain of Custody Record

PROJECT NO. Chevron Pipeline

SAMPLERS: (Signature) [signature]

DATE	TIME	SAMPLE NUMBER	Sample Matrix (S)oil, (W)ater, (A)ir	EPA Method	EPA Method	EPA Method	EPA Method	BTEX TO-14	TPH-g TO-18						Number of Containers	REMARKS (Sample preservation, handling procedures, etc.)
11/15/05	10:50	SVE-1D-11/15/05	A					X	X						1	24 hr TAT
11/15/05	10:55	SVE-2S-11/15/05	A					X	X						1	Send Results to Angela Liang & Joe Morgan

TOTAL NUMBER OF CONTAINERS: 2

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
[signature]	11/15/05 14:30				

METHOD OF SHIPMENT:	SHIPPED BY: (Signature)	COURIER: (Signature)	RECEIVED FOR LAB BY (Signature)	DATE/TIME
			[signature]	11/16/05 0900

11875/967555/4649338-42

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

Chain of Custody Record

PROJECT NO. Chevron Pipeline

SAMPLERS: (Signature) [signature]

DATE	TIME	SAMPLE NUMBER	Sample Matrix (S)oil, (W)ater, (A)ir	EPA Method	EPA Method	EPA Method	EPA Method	BTEX-TO14	TPH g TO15	Number of Containers	REMARKS (Sample preservation, handling procedures, etc.)
11/15/05	11:05	SVE-4D-11/15/05	A					x	x	1	24 hr TAT
11/15/05	11:10	SVE-3S-11/15/05	A					x	x	1	Send results to Joe Morgan & Angela Liang

TOTAL NUMBER OF CONTAINERS: 2

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
[signature]	11/15/05 14:30				

METHOD OF SHIPMENT:	SHIPPED BY: (Signature)	COURIER: (Signature)	RECEIVED FOR LAB BY (Signature)	DATE/TIME
			Ross Zook	11/16/05 0900

11875/967555/4649338-42

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

Chain of Custody Record

PROJECT NO. Chevron Pipeline

SAMPLERS: (Signature) [signature]

DATE	TIME	SAMPLE NUMBER	Sample Matrix (S)oil, (W)ater, (A)ir	EPA Method	EPA Method	EPA Method	EPA Method	BTEX TO14	TPHg TO18	Number of Containers	REMARKS (Sample preservation, handling procedures, etc.)
11/15/05	11:25	Influent - 11/15/05	A					X	X	1	24hr TAT Send results to Joel Morgan & Angela Liang

TOTAL NUMBER OF CONTAINERS: 1

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
[signature]	11/15/05 14:30				

METHOD OF SHIPMENT:	SHIPPED BY: (Signature)	COURIER: (Signature)	RECEIVED FOR LAB BY (Signature)	DATE/TIME
			[signature]	11/16/05 0900

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

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

> greater than

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

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

Analytical test results 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.

Lancaster Laboratories

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

Analysis Report

ANALYTICAL RESULTS

Prepared for:

Chevron 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 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

Lancaster Laboratories

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Analysis Report

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

Respectfully Submitted,

Michele J. Smith

Michele J. Smith
Group Leader

Lancaster Laboratories

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Analysis Report

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
Reported: 11/28/2005 at 16:49
Discard: 12/29/2005

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

CAT No.	Analysis Name	CAS Number	As Received Result	MDL	Units	As Received Final 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)	3,400,000.	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)	1,600,000.	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 initial dilution was necessary to perform the analysis. Therefore, the reporting limits were raised.								
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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Lancaster Laboratories

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Analysis Report

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
Reported: 11/28/2005 at 16:49
Discard: 12/29/2005

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final 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 initial dilution was necessary to perform the analysis. Therefore, the reporting limits were raised.								
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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Lancaster Laboratories

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Analysis Report

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
Reported: 11/28/2005 at 16:49
Discard: 12/29/2005

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final 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 initial dilution was necessary to perform the analysis. Therefore, the reporting limits were 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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07199	TO-14A VOA Extended List	EPA TO14A	1	11/28/2005 07:10	Jeffrey B Smith	50
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	11/28/2005 10:33	David I Ressler	2

Lancaster Laboratories

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

Analysis Report

Lancaster Laboratories Sample No. 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
Reported: 11/28/2005 at 16:49
Discard: 12/29/2005

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final 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	1,100,000.	4,000.	ppb(v)	4,100,000.	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)	1,500,000.	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 initial dilution was necessary to perform the analysis. Therefore, the reporting limits were raised.								
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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Lancaster Laboratories

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

Analysis Report

Quality Control Summary

Client Name: Chevron Pipeline Co.
Reported: 11/28/05 at 04:49 PM

Group Number: 968852

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: A0533130A	Sample number(s): 4656935-4656938							
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	ppb(v)	89		60-142		
m/p-Xylene	N.D.	0.20	ppb(v)	90		58-152		
o-Xylene	N.D.	0.20	ppb(v)	93		63-156		
Batch number: M053321ZA	Sample number(s): 4656935-4656938							
>C4-C10 Hydrocarbons methane	2.0	1.0	ppm(v)					
>C4-C10 Hydrocarbons propane	N.D.	1.0	ppm(v)					
>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 Generic Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

Acct. #: 11875 For Lancaster Laboratories use only GRP # 965852 Sample #: 465935-38 SCR#: 004010B

Facility #: Chevron Pipeline
Site Address: Mile Post 2.7 Calaveras Road, Sunol
Chevron PM: _____ Lead Consultant: URS
Consultant/Office: Oakland
Consultant Prj. Mgr.: Joe Morgan
Consultant Phone #: 510.893.3600 Fax #: 510.874.3268
Sampler: Angela Liang
Service Order #: _____ ☐ Non SAR: _____

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water	Matrix: Oil ☐ Air ☐	Total Number of Containers	BTEX + MTBE 8021 ☐ 8260 ☐ Naphth ☐	8260 full scan	Oxygenates	TPH G TO 18	TPH D ☐ Extended Rng. ☐ Silica Gel Cleanup	Lead Total ☐ Diss. ☐ Method	VPH/EPH	NWTPH H HCID ☐ quantification	TO14 for BTEX
SVE-1D-112305	11/23/05	08:00	X				X					X					X
SVE-4D-112305	11/23/05	08:05	X				X					X					X

Preservation Codes

Preservative Codes
H = HCl T = Thiosulfat
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ J value reporting needed
☐ Must meet lowest detection lir possible for 8260 compounds

8021 MTBE Confirmation
☐ Confirm MTBE + Naphthalene
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Comments / Remarks
One day TAT

Turnaround Time Requested (TAT) (please circle)
STD. TAT 72 hour 48 hour
(24 hour) 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I - Full
Type VI (Raw Data) Disk / EDD
WIP (RWQCB) Standard Format
Disk _____ Other.

Relinquished by:	Date	Time	Received by:	Date	Time
Angela Liang	11/23/05	1300			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by Commercial Carrier: UPS (FedEx) Other _____			Received by:	Date	Time
Temperature Upon Receipt _____ C°			Custody Seals Intact? Yes No	11/25/05	0935

Chevron Generic Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

GRB# 968852

For Lancaster Laboratories use only

Acct. #: 11875 Sample #: 465693S-38 SCR#:

004010A

Facility #: Chevron Pipeline
Site Address: Mile Post 2.7 Calaveras Road, Sunol
Chevron PM: Lead Consultant: URS
Consultant/Office: Oakland
Consultant Prj. Mgr.: Joe Morgan
Consultant Phone #: 510.893.3600 Fax #: 510.874.3268
Sampler: Angela Liang
Service Order #: ☐ Non SAR:

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water	Matrix: Oil ☐ Air ☐	Total Number of Containers	BTEX+MTBE 8021 ☐ 8260 ☐ Naphth ☐	8260 full scan	Oxygenates	TPH G TO 18	TPH D ☐ Extended Rng. ☐ Silica Gel Cleanup	Lead Total ☐ Diss. ☐ Method	VPH/EPH	NWTPH H HCID ☐ quantification	TO14 for BTEX		
SVE-2S-112305	11/23/05	07:50	X				X	1				X					X		
SVE-3S-112305	11/23/05	07:55	X				X	1				X					X		

Analyses Requested / Preservation Codes

Preservative Codes
H = HCl T = Thiosulfat
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ J value reporting needed
☐ Must meet lowest detection lir possible for 8260 compounds

8021 MTBE Confirmation
☐ Confirm MTBE + Naphthalene
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Comments / Remarks
One day TAT

Turnaround Time Requested (TAT) (please circle)
STD. TAT 72 hour 48 hour
(24 hour) 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I - Full
Type VI (Raw Data) Disk / EDD
WIP (RWQCB) Standard Format
Disk _____ Other.

Relinquished by:	Date	Time	Received by:	Date	Time
Angela Liang	11/23/05	1300			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by Commercial Carrier: UPS (FedEx) Other			Received by:	Date 11/25/05	Time 0935
Temperature Upon Receipt ____ C°			Custody Seals Intact? Yes No		

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

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

> greater than

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

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

Analytical test results 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.

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 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	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)	1,900,000.	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 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.	2,800.	2.0	ppm(v)	9,900.	7.0	mg/m3	2

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Account: 11875

SVE-2S-11/29/05 Summa Can# 0096 Grab Air Sample
Sunol, CA

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

Collected: 11/29/2005 09:20 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								

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	2

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Account: 11875

SVE-4D-11/29/05 Summa Can# 0145 Grab Air Sample
Sunol, CA

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

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	Benzene	71-43-2	4.0	0.20	ppb(v)	13.	0.64	ug/m3	1
07250	Toluene	108-88-3	90.	0.20	ppb(v)	340.	0.75	ug/m3	1
07261	Ethylbenzene	100-41-4	25.	0.20	ppb(v)	110.	0.87	ug/m3	1
07262	m/p-Xylene	1330-20-7	150.	0.20	ppb(v)	650.	0.87	ug/m3	1
07263	o-Xylene	95-47-6	77.	0.20	ppb(v)	330.	0.87	ug/m3	1
07548	>C4-C10 Hydrocarbons in Air								
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

Laboratory Chronicle

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

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

Sample Number: AQ 4658439

Account: 11875

SVE-3S-11/29/05 Summa Can# 0410 Grab Air Sample
Sunol, CA

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

Collected: 11/29/2005 09:30 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	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)	3,700,000.	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)	1,700,000.	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 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.	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 No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Account: 11875

Influent-11/29/05 Tedlar Bag Grab Air Sample
Sunol, CA

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

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

			As Received			As 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
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	210.	1.0	ppm(v)	740.	3.5	mg/m3	1
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	2,300.	50.	ppb(v)	7,300.	160.	ug/m3	250
07250	Toluene	108-88-3	16,000.	50.	ppb(v)	60,000.	190.	ug/m3	250
07261	Ethylbenzene	100-41-4	1,600.	50.	ppb(v)	6,900.	220.	ug/m3	250
07262	m/p-Xylene	1330-20-7	6,100.	50.	ppb(v)	26,000.	220.	ug/m3	250
07263	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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

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

> greater than

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

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

Analytical test results 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.

Lancaster Laboratories

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

Analysis Report

ANALYTICAL RESULTS

Prepared for:

Chevron 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.

Client Description	Lancaster Labs Number
SVE-2S-120605 Tedlar Bag Grab Air Sample	4664005
SVE-3S-120605 Tedlar Bag Grab Air Sample	4664006

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

Lancaster Laboratories

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Analysis Report

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

Respectfully Submitted,

Rachel R. Cochis
Group Leader

Lancaster Laboratories

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

Analysis Report

Lancaster Laboratories Sample No. 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
Reported: 12/15/2005 at 17:51
Discard: 01/15/2006

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	12/07/2005 16:45	David I Ressler	1
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/08/2005 07:16	Douglas Graham	1000
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/08/2005 07:57	Douglas Graham	100

Lancaster Laboratories

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Analysis Report

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

Submitted: 12/07/2005 09:40
Reported: 12/15/2005 at 17:51
Discard: 01/15/2006

Account Number: 11875

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final 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	120,000.	1,000.	ppb(v)	380,000.	3,200.	ug/m3	5000
07250	Toluene	108-88-3	550,000.	10,000.	ppb(v)	2,100,000.	38,000.	ug/m3	50000
07261	Ethylbenzene	100-41-4	96,000.	1,000.	ppb(v)	420,000.	4,300.	ug/m3	5000
07262	m/p-Xylene	1330-20-7	330,000.	1,000.	ppb(v)	1,400,000.	4,300.	ug/m3	5000
07263	o-Xylene	95-47-6	110,000.	1,000.	ppb(v)	480,000.	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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: Chevron Pipeline Co.
Reported: 12/15/05 at 05:51 PM

Group Number: 970067

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

Laboratory Compliance Quality Control

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

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

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.	3,000.	1.0	ppm(v)	11,000.	3.5	mg/m3	1
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	20,000.	100.	ppb(v)	64,000.	320.	ug/m3	500
07250	Toluene	108-88-3	130,000.	1,000.	ppb(v)	490,000.	3,800.	ug/m3	5000
07261	Ethylbenzene	100-41-4	13,000.	100.	ppb(v)	56,000.	430.	ug/m3	500
07262	m/p-Xylene	1330-20-7	78,000.	100.	ppb(v)	340,000.	430.	ug/m3	500
07263	o-Xylene	95-47-6	24,000.	100.	ppb(v)	100,000.	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

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Account: 11875

SVE-4D-120605 Tedlar Bag Grab Air Sample
Calaveras Rd. - Sunol, CA

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

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

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								

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	1,000,000.	5,000.	ppb(v)	3,800,000.	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 No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Account: 11875

Influent-120605 Tedlar Bag Grab Air Sample
Calaveras Rd. - Sunol, CA

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

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

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.	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 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 4664004

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	12/07/2005 16:15	David I Ressler	1
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	12/08/2005 05:53	Douglas Graham	5000
07869	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

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only — GRP# 970067 — 242001

Acct. #: 11875 Sample #: 4664005-06 SCR#:

Facility #: Chevron Pipeline
Site Address: Calaveras Rd, Sunol, CA
Chevron PM: Lead Consultant:
Consultant/Office: URS- Oakland
Consultant Prj. Mgr.: Joe Morgan
Consultant Phone #: 510-893-3600 Fax #: 510-874-3268
Sampler: Greg White
Service Order #: ☐ Non SAR:

Analyses Requested / **Preservation Codes**

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420 ☐ 7421 ☐	BTEX TO-14	TPH-g TO-18			
SVE-2S-12/6/05	A			12/6/05	08:05		X		1							X	X			
SVE-3S-12/6/05	A			12/6/05	07:55		X		1							X	X			

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

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

8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Comments / Remarks
Email Results to Angela Liang, Joe Morgan, and Greg White (greg_white@urscorp.com)

72 hr TAT

Turnaround Time Requested (TAT) (please circle)
STD. TAT — (72 hour) — 48 hour
24 hour — 4 day — 5 day

Data Package Options (please circle if required)
QC Summary — Type I – Full
Type VI (Raw Data) — ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	12/6/05	13:00			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by Commercial Carrier: UPS FedEx (X) Other ____			Received by: Tina McNeil	12/7/05	0940
Temperature Upon Receipt: Tedlar Bags			Custody Seals Intact? Yes (No)		

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

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

> greater than

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

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

Analytical test results 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.

Lancaster Laboratories

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Analysis Report

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

Client Description	Lancaster Labs Number
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 COPY TO	Chevron Pipeline Co.	Attn: Angela Liang
ELECTRONIC COPY TO	Chevron Pipeline Co.	Attn: Joe Morgan

Lancaster Laboratories

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Analysis Report

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

Respectfully Submitted,

Rachel R. Cochis
Group Leader

Lancaster Laboratories

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Analysis Report

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
Reported: 12/19/2005 at 15:10
Discard: 01/19/2006

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final 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 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 No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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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Analysis Report

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
Reported: 12/19/2005 at 15:10
Discard: 01/19/2006

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final Result	MDL	Units	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	19.	1.0	ppm(v)	67.	3.5	mg/m3	1
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	66.	1.0	ppb(v)	210.	3.2	ug/m3	5
07250	Toluene	108-88-3	380.	2.4	ppb(v)	1,400.	9.0	ug/m3	12
07261	Ethylbenzene	100-41-4	120.	1.0	ppb(v)	520.	4.3	ug/m3	5
07262	m/p-Xylene	1330-20-7	810.	1.0	ppb(v)	3,500.	4.3	ug/m3	5
07263	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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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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Analysis Report

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
Reported: 12/19/2005 at 15:10
Discard: 01/19/2006

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final 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)	1,900,000.	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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Lancaster Laboratories

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Analysis Report

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

Submitted: 12/14/2005 09:25
Reported: 12/19/2005 at 15:10
Discard: 01/19/2006

Account Number: 11875

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final 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)	1,300,000.	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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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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Analysis Report

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
Reported: 12/19/2005 at 15:10
Discard: 01/19/2006

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: Chevron Pipeline Co.
Reported: 12/19/05 at 03:10 PM

Group Number: 971005

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: A0534930A	Sample number(s): 4669523-4669527							
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	Sample number(s): 4669523-4669527							
>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

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. #: 11875 Sample #: 466923-27 SCR#: 242006 Grp # 971005

Facility #: Chevron Pipeline
Site Address: Calaveras Rd, Sunol, CA
Chevron PM: _____ Lead Consultant: _____
Consultant/Office: URS- Oakland
Consultant Prj. Mgr.: Joe Morgan
Consultant Phone #: 510-893-3600 Fax #: 510-874-3268
Sampler: Greg White
Service Order #: _____ ☐ Non SAR: _____

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates ___	Lead 7420 ☐ 7421 ☐	BTEX TO-14	TPH-g TO-18
SVE-1S- 12/13/05	A			12/13/05	09:20		X									X	X
SVE-2S- 12/13/05	A			↓	09:15		X									X	X
SVE-3S- 12/13/05	A			↓	09:05		X									X	X

Analyses Requested
Preservation Codes

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

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds
8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Comments / Remarks
72 Hr TAT
Send Report to Joe Morgan, Angela Liang, Greg White via email

Turnaround Time Requested (TAT) (please circle)
STD. TAT 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I – Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

	Date	Time		Date	Time
Relinquished by: [signature]	12/13/05	15:00	Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by:		
Relinquished by Commercial Carrier: UPS FedEx Other _____			Received by: [signature]	12/14/05	0925
Temperature Upon Receipt N/A C°			Custody Seals Intact? Yes No N/A		

Chevron California Region Analysis Request/Chain of Custody

242007

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. #: _____ Sample #: _____ SCR#: _____

Facility #: Chevron Pipeline
Site Address: Calaveras Rd, Sunol, CA
Chevron PM: _____ Lead Consultant: _____
Consultant/Office: URS-Oakland
Consultant Prj. Mgr.: Joe Morgan
Consultant Phone #: 510-893-3600 Fax #: 510-874-3268
Sampler: Greg White
Service Order #: _____ ☐ Non SAR: _____

Analyses Requested

Preservation Codes

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

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

8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420 ☐ 7421 ☐	BTEX TO-14	TPH-g TO-18
SVE-4D-12/13/05	A			12/13/05	0911 0		X									X	X
Influent-12/13/05	A			12/13/05	0925		X									X	X

Comments / Remarks
72 Hr TAT
Send report to Joe Morgan, Angela Lang, Greg White via email

Turnaround Time Requested (TAT) (please circle)
STD. TAT 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I – Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

Relinquished by:	Date	Time	Received by:	Date	Time
	12/13/05	15:00			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
			#3 13C 1605	12/15/05	
Relinquished by Commercial Carrier: UPS FedEx Other _____			Received by:	12/14/05	0925
Temperature Upon Receipt n/a C°			Custody Seals Intact? Yes No (N/A)		

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

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

> greater than

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

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

Analytical test results 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.

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 No.	Analysis Name	CAS Number	As Received Final Result	MDL	Unit	As Received Final 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)	1,100,000.	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	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

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Account: 11875

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

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

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 No.	Analysis Name	CAS Number	Final Result	MDL	Unit	Final 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 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 No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Account: 11875

SVE-3S Grab Tedlar Bag Air Sample
Sunol, CA

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

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

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								
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)	1,800,000.	19,000.	ug/m3	25000
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 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 No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Account: 11875

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

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

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

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								
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)	1,500,000.	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)	1,700,000.	43,000.	ug/m3	50000
07263	o-Xylene	95-47-6	32,000.	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.
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 No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Account: 11875

Influent Grab Tedlar Bag Air Sample
Sunol, CA

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

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

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								
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 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 No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

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

> greater than

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

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

Analytical test results 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.

Lancaster Laboratories

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

Analysis Report

ANALYTICAL RESULTS

Prepared for:

Chevron 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	Lancaster Labs Number
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 COPY TO	Chevron Pipeline Co	Attn: April Giangerelli
ELECTRONIC COPY TO	Chevron Pipeline Co	Attn: Greg White

Lancaster Laboratories

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Analysis Report

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

Respectfully Submitted,

Michele J. Smith

Michele J. Smith
Group Leader

Lancaster Laboratories

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Analysis Report

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
Reported: 01/10/2006 at 16:18
Discard: 02/10/2006

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final 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	24,000.	400.	ppb(v)	77,000.	1,300.	ug/m3	2000
07250	Toluene	108-88-3	200,000.	400.	ppb(v)	750,000.	1,500.	ug/m3	2000
07261	Ethylbenzene	100-41-4	20,000.	400.	ppb(v)	87,000.	1,700.	ug/m3	2000
07262	m/p-Xylene	1330-20-7	86,000.	400.	ppb(v)	370,000.	1,700.	ug/m3	2000
07263	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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Lancaster Laboratories

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Analysis Report

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
Reported: 01/10/2006 at 16:18
Discard: 02/10/2006

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final Result	MDL	Units	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	100.	1.0	ppm(v)	350.	3.5	mg/m3	1
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	870.	20.	ppb(v)	2,800.	64.	ug/m3	100
07250	Toluene	108-88-3	8,100.	20.	ppb(v)	31,000.	75.	ug/m3	100
07261	Ethylbenzene	100-41-4	790.	20.	ppb(v)	3,400.	87.	ug/m3	100
07262	m/p-Xylene	1330-20-7	4,400.	20.	ppb(v)	19,000.	87.	ug/m3	100
07263	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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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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Analysis Report

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

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final Result	MDL	Units	DF
07548	>C4-C10 Hydrocarbons in Air								
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)	1,700,000.	3,800.	ug/m3	5000
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 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 No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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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Analysis Report

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
Reported: 01/10/2006 at 16:18
Discard: 02/10/2006

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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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Analysis Report

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
Reported: 01/10/2006 at 16:18
Discard: 02/10/2006

Chevron Pipeline Co.
2811 Hayes Road
Houston TX 77082

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final 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)	1,100,000.	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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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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Analysis Report

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 Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: A0600630A	Sample number(s): 4682448-4682452							
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	ppb(v)	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 number(s): 4682451							
>C4-C10 Hydrocarbons hexane	N.D.	1.0	ppm(v)					
Batch number: M060061ZB	Sample number(s): 4682448-4682449,4682452							
>C4-C10 Hydrocarbons hexane	N.D.	1.0	ppm(v)					
Batch number: M060091ZA	Sample number(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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242010

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Acct. #: 11875 Sample #: 4682448-52 SCR#:

973207

Facility #: Chevron Pipeline
Site Address: Calaveras Rd Sunol, CA
Chevron PM: Lead Consultant:
Consultant/Office: URS Oakland
Consultant Prj. Mgr.: Joe Morgan
Consultant Phone #: 510-893-3600 Fax #: 510-874-3268
Sampler: Greg White
Service Order #: ☐ Non SAR:

Analyses Requested

Preservation Codes

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates ___	Lead 7420 ☐ 7421 ☐	BTEX By TO-14	TPH-g By TO-15
SVE-1D-1/4/06	A			1/4/06	08:20		X									X	X
SVE-2S-1/4/06	A			↓	08:15		X									X	X
SVE-3S-1/4/06	A				08:05		X									X	X

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

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

8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Comments / Remarks
72 Hr TAT

Please email report to Angela Liang Joe Morgan Greg White of URS

Turnaround Time Requested (TAT) (please circle)
STD. TAT (72 hour) 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I – Full
Type VI (Raw Data) ☐ CoeIt Deliverable not needed
WIP (RWQCB)
Disk

	Date	Time		Date	Time
Relinquished by:	1/4/06	14:00	Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by:		
Relinquished by Commercial Carrier: UPS (FedEx) Other			Received by: Deborah Vestlund	1/5/06	0930
Temperature Upon Receipt ____ C°			Custody Seals Intact? Yes No		

3460 Rev. 10/04/01

Chevron California Region Analysis Request/Chain of Custody

242011

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For Lancaster Laboratories use only
Acct. #: 11875 Sample #: 4682448-52 SCR#:

973207

Facility #: Chevron Pipeline
Site Address: Calaveras Rd Sunol, CA
Chevron PM: Lead Consultant:
Consultant/Office: URS Oakland
Consultant Prj. Mgr.: Joe Morgan
Consultant Phone #: 510-893-3600 Fax #: 510-874-3268
Sampler: Greg White
Service Order #: ☐ Non SAR:

Analyses Requested

Preservation Codes

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420 ☐ 7421 ☐	BTEX By TO-14	TPH-g By TO-18
SVE-4D-1/4/06	A			1/4/06	08:10		X									X	X
Influent-1/4/06	A			1/4/06	08:30		X									X	X

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

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

8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Comments / Remarks
72 Hr TAT

Please email report to Angela Liens
Joe Morgan
Greg White
of URS

Turnaround Time Requested (TAT) (please circle)

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

Data Package Options (please circle if required)
QC Summary Type I – Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

	Date	Time		Date	Time
Relinquished by:	1/4/06	14:00	Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by:		
Relinquished by Commercial Carrier: UPS (FedEx) Other			Received by: Deborah Vestlund	1/5/06	0930
Temperature Upon Receipt ____ C°			Custody Seals Intact? Yes No		

3460 Rev. 10/04/01

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

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

> greater than

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

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

Analytical test results 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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Analysis Report

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	Lancaster Labs Number
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 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

Lancaster Laboratories

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Analysis Report

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

Respectfully Submitted,

Michele J. Smith

Michele J. Smith
Group Leader

Lancaster Laboratories

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Analysis Report

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
Reported: 01/25/2006 at 15:28
Discard: 02/25/2006

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

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final 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)	1,400,000.	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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Lancaster Laboratories

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Analysis Report

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

Submitted: 01/12/2006 09:00
Reported: 01/25/2006 at 15:28
Discard: 02/25/2006

Account Number: 11875

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

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Lancaster Laboratories

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Analysis Report

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

Submitted: 01/12/2006 09:00
Reported: 01/25/2006 at 15:28
Discard: 02/25/2006

Account Number: 11875

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

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final 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)	3,600,000.	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)	1,900,000.	4,300.	ug/m3	5000
07263	o-Xylene	95-47-6	160,000.	1,000.	ppb(v)	690,000.	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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Lancaster Laboratories

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Analysis Report

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 Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: A0601230A	Sample number(s): 4686706-4686708							
Benzene	N.D.	0.20	ppb(v)	98		76-145		
Toluene	N.D.	0.20	ppb(v)	103		62-152		
Ethylbenzene	N.D.	0.20	ppb(v)	103		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: M060161ZA	Sample number(s): 4686708							
>C4-C10 Hydrocarbons hexane	N.D.	1.0	ppm(v)					
Batch number: M060191ZA	Sample number(s): 4686706-4686707							
>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.

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 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	33,000.	1,000.	ppb(v)	110,000.	3,200.	ug/m3	5000
07250	Toluene	108-88-3	420,000.	1,000.	ppb(v)	1,600,000.	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

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

Sample Number: AQ 4686716

Account: 11875

Influent-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 08:55 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)	1,800,000.	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 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 No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
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 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.	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 No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	01/13/2006 09:59	David I Ressler	10

Sample Number: AQ 4686716

Account: 11875

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

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.	2,000.	10.	ppm(v)	7,000.	35.	mg/m3	10

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. #: 11875 Grp # 974030 Sample #: 468706-08 242012 SCR#:

Facility #: Chevron Pipeline
Site Address: Calverera RD, Suisun, CA
Chevron PM: _____ Lead Consultant: _____
Consultant/Office: URS- Oakland
Consultant Prj. Mgr.: Joe Morgan
Consultant Phone #: 510-893-3600 Fax #: 510-874-3268
Sampler: Greg White
Service Order #: _____ ☐ Non SAR: _____

Analyses Requested

Preservation Codes

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

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

8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates ____	Lead 7420 ☐ 7421 ☐	BTEX by TO-14	TPH-g by TO-18
SVE-1D-1/11/06	A			1/11/06	0845		X									X	X
SVE-2S-1/11/06	A			↓	0840		X									X	X
SVE-3S-1/11/06	A				0830		X									X	X

Comments / Remarks
Please Email Results to Joe Morgan Angela Liang Greg White of URS

72 Hr TAT

Turnaround Time Requested (TAT) (please circle)
STD. TAT 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I – Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	1/11/06	14:00			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by Commercial Carrier: UPS FedEx Other _____			Received by: [signature]	Date 1/12/06	Time 0900
Temperature Upon Receipt N/A C°			Custody Seals Intact? Yes No		

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

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

> greater than

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

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

Analytical test results 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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Analysis Report

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	Lancaster Labs Number
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 COPY TO	Chevron Pipeline Co	Attn: April Giangerelli
ELECTRONIC COPY TO	Chevron Pipeline Co	Attn: Greg White

Lancaster Laboratories

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Analysis Report

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

Respectfully Submitted,

Michele J. Smith

Michele J. Smith
Group Leader

Lancaster Laboratories

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Analysis Report

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
Reported: 01/23/2006 at 17:11
Discard: 02/23/2006

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

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final 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)	1,800,000.	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 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 No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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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Analysis Report

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
Reported: 01/23/2006 at 17:11
Discard: 02/23/2006

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

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final 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 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 No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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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Analysis Report

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
Reported: 01/23/2006 at 17:11
Discard: 02/23/2006

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

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final Result	MDL	Units	DF
07548	>C4-C10 Hydrocarbons in Air								
07551	>C4-C10 Hydrocarbons hexane	n.a.	4,300.	10.	ppm(v)	15,000.	35.	mg/m3	10
	The reporting limit for the C4-C10 hydrocarbons was raised because sample dilution was necessary to bring target compounds into the calibration range of the system.								
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)	2,400,000.	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)	1,300,000.	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 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 No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Lancaster Laboratories

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Analysis Report

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
Reported: 01/23/2006 at 17:11
Discard: 02/23/2006

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

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final 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)	1,900,000.	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)	1,100,000.	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 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 No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Lancaster Laboratories

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Analysis Report

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
Reported: 01/23/2006 at 17:11
Discard: 02/23/2006

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

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final 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)	2,000,000.	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)	1,000,000.	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 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 No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Lancaster Laboratories

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Analysis Report

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 Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: A0602030A	Sample number(s): 4690181-4690182							
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	Sample number(s): 4690183-4690185							
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: M060191ZA	Sample number(s): 4690181-4690182,4690184-4690185							
>C4-C10 Hydrocarbons hexane	N.D.	1.0	ppm(v)					
Batch number: M060201ZA	Sample number(s): 4690183							
>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

Lancaster Laboratories
Where quality is a science.

Grp # 974698 — 242005

For Lancaster Laboratories use only

Acct. #: 11875 Sample #: 469181-85 SCR#:

Facility #: Chevron Pipeline
Site Address: Calaveras Rd Sunol, CA
Chevron PM: _____ Lead Consultant: _____
Consultant/Office: URS- Oakland
Consultant Prj. Mgr.: Joe Morgan
Consultant Phone #: 510-874-3201 Fax #: 510-874-3268
Sampler: Greg Wilt
Service Order #: _____ ☐ Non SAR: _____

Analyses Requested

Preservation Codes

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

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds
8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates ____	Lead 7420 ☐ 7421 ☐	BTEX by TO-14	TPH-g by TO-18
SVE-4D-1/17/06	A			1/17/06	0815		X									X	X
SVE-Influent-1/17/06	A			1/17/06	0835		X									X	X

Comments / Remarks

72 Hr TAT

Please Email Report to Joe Morgan, Greg Wilt, Angela Liens, URS

Turnaround Time Requested (TAT) (please circle)

STD. TAT — (72 hour) — 48 hour
24 hour — 4 day — 5 day

Data Package Options (please circle if required)

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

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	1/17/06	14:00			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by Commercial Carrier: UPS (FedEx) Other ____			Received by: [signature]	Date 1/18/06	Time 1140
Temperature Upon Receipt ____ C°			Custody Seals Intact? ~~Yes~~ (No) 01/18/06		

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

Grp # 974698
For Lancaster Laboratories use only
242004

Acct. #: 11845 Sample #: 469018185 SCR#:

Facility #: Chevron Apeline
Site Address: Calaveras Rd, Sunol, CA
Chevron PM: Lead Consultant:
Consultant/Office: URS- Oakland
Consultant Prj. Mgr.: Joe Morgan
Consultant Phone #: 510-874-3201 Fax #: 510-874-3268
Sampler: Greg White
Service Order #: ☐ Non SAR:

Analyses Requested

Preservation Codes

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420 ☐ 7421 ☐	BTEX by TO-14	TPH-g by TO-18
SVE-1D-1/17/06	A			1/17/06	08:25		X									X	X
SVE-2S-1/17/06	A			1/17/06	08:20		X									X	X
SVE-3S-1/17/06	A			1/17/06	08:10		X									X	X

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

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds
8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Comments / Remarks
72 Hr TAT

Please Email Report to Joe Morgan, Angela Liang, Greg White of URS

Turnaround Time Requested (TAT) (please circle)
STD. TAT 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I – Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

	Relinquished by:	Date	Time	Received by:	Date	Time
1		1/17/06	14:00			
2	Relinquished by:	Date	Time	Received by:	Date	Time
3	Relinquished by:	Date	Time	Received by:	Date	Time
4	Relinquished by Commercial Carrier: UPS (FedEx) Other			Received by:	Date 1/18/06	Time 1140
	Temperature Upon Receipt ____ C°			Custody Seals Intact? ~~Yes~~ No		

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

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

> greater than

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

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

Analytical test results 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.

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

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 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.	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	1,000,000.	5,000.	ppb(v)	3,800,000.	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)	1,100,000.	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 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 No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Account: 11875

SVE-2S-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 08:05 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

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

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

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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 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.	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)	1,100,000.	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 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

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

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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 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.	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 No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Account: 11875

SVE-Influent-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 08:15 by GW
Submitted: 01/25/2006 09:15
Reported: 02/06/2006 at 15:18

CAT	As Received Final	As Received Final

Lancaster Laboratories Analytical Report

2425 New Holland Pike, Lancaster, PA 17603

Sample Number: AQ 4695272

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.	1.0	ppm(v)	7,000.	3.5	mg/m3	1
07869	TO-14A VOA Ext. List Tedlar								
07238	Benzene	71-43-2	37,000.	100.	ppb(v)	120,000.	320.	ug/m3	500
07250	Toluene	108-88-3	280,000.	1,000.	ppb(v)	1,100,000.	3,800.	ug/m3	5000
07261	Ethylbenzene	100-41-4	31,000.	100.	ppb(v)	130,000.	430.	ug/m3	500
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	41,000.	100.	ppb(v)	180,000.	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 No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

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

> greater than

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

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

Analytical test results 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.

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

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 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.	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 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 No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

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: 02/09/2006 at 17:05

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	99,000.	1,000.	ppb(v)	320,000.	3,200.	ug/m3	5000

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

Sample Number: AQ 4700926

07250	Toluene	108-88-3	790,000.	5,000.	ppb(v)	3,000,000.	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 No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

Account: 11875

SVE-4D-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 11:15 by AL
Submitted: 02/02/2006 09:00
Reported: 02/09/2006 at 17:05

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.	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)	1,300,000.	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 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 No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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

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

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 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	44,000.	1,000.	ppb(v)	140,000.	3,200.	ug/m3	5000
07250	Toluene	108-88-3	360,000.	1,000.	ppb(v)	1,400,000.	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 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 No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO-14A VOA Ext. List Tedlar	EPA TO14A	1	02/06/2006 19:26	Jeffrey B Smith	5000

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: 02/09/2006 at 17:05

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	48,000.	1,300.	ppb(v)	150,000.	4,000.	ug/m3	6250
07250	Toluene	108-88-3	460,000.	1,300.	ppb(v)	1,700,000.	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 Tedlar bag which is not the container referenced in the EPA method.

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

Sample Number: AQ 4700929

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

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

Lancaster Laboratories Analytical Report

2425 New Holland Pike, Lancaster, PA 17603

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

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: 02/28/2006 at 16:50

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.	1,600.	10.	ppm(v)	5,600.	35.	mg/m3	10

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07548	>C4-C10 Hydrocarbons in Air	EPA 25 modified	1	02/03/2006 12:58	David I Ressler	10

Sample Number: AQ 4700929

Lancaster Laboratories Analytical Report

2425 New Holland Pike, Lancaster, PA 17603

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 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.	2,700.	10.	ppm(v)	9,500.	35.	mg/m3	10

State of California Lab Certification No. 2116

MDL = Method Detection Limit

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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
C	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)	**l**	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 limit of quantitation, 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.

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.

U.S. EPA data qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

Analytical test results 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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Analysis Report

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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Analysis Report

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

Respectfully Submitted,

Barbara B Weaver

Barbara B. Weaver
Senior Specialist

Lancaster Laboratories

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Analysis Report

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

Submitted: 02/14/2006 09:35
Reported: 02/17/2006 at 16:54
Discard: 03/20/2006

Account Number: 11875

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

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final 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 Tedlar bag which is not the container 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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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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Analysis Report

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

Submitted: 02/14/2006 09:35
Reported: 02/17/2006 at 16:54
Discard: 03/20/2006

Account Number: 11875

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

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final 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)	1,800,000.	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 Tedlar bag which is not the container 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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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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Analysis Report

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
Reported: 02/17/2006 at 16:54
Discard: 03/20/2006

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

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final 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)	1,900,000.	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 Tedlar bag which is not the container 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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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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Analysis Report

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

Submitted: 02/14/2006 09:35
Reported: 02/17/2006 at 16:54
Discard: 03/20/2006

Account Number: 11875

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

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final 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 Tedlar bag which is not the container 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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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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Analysis Report

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
Reported: 02/17/2006 at 16:54
Discard: 03/20/2006

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

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final 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 Tedlar bag which is not the container 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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution 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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2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Quality Control Summary

Client Name: Chevron 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 Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: A0604630A	Sample number(s): 4709182-4709186							
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	Sample number(s): 4709182,4709185-4709186							
>C4-C10 Hydrocarbons hexane	N.D.	1.0	ppm(v)					
Batch number: M060471ZA	Sample number(s): 4709183-4709184							
>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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For Lancaster Laboratories use only
Acct. #: 11875 Sample #: 4709182-86 SCR#: 242017

977988

Facility #: Chevron Rpeline
Site Address: Calaveras Road Sunol, CA
Chevron PM: _____ Lead Consultant: _____
Consultant/Office: URS- Oakland
Consultant Prj. Mgr.: Joe Morgan
Consultant Phone #: 510-874-3201 Fax #: 510-874-3268
Sampler: Greg White
Service Order #: _____ ☐ Non SAR: _____

Analyses Requested

Preservation Codes

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

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

8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates ___	Lead 7420 ☐ 7421 ☐	BTEX- TO-14	TPH-g TO-18
SVE-3S-2/13/06	A			2/13/06	08:50		X									X	X
SVE-1D-2/13/06	A			↓	09:05		X									X	X
Influent-2/13/06	A				09:10		X									X	X

Comments / Remarks

Please Email Results to Joe Morgan Angela Liang Greg White of URS

72 Hr TAT

Turnaround Time Requested (TAT) (please circle)
STD. TAT (72 hour) 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I – Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	2/13/06	15:00			
~~Relinquished by:~~	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by ~~Commercial~~ Carrier: UPS (FedEx) Other _____			Received by: (#3 TBC1165) 2/14/06 [signature]	Date 2/14/06	Time 0935
Temperature Upon Receipt N/A C°			Custody Seals Intact? Yes No (N/A)		

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only

242017

Acct. #: 11875 Sample #: 4709182-86 SCR#:

977988

Facility #: Chevron Pipeline
Site Address: Chevron Rd Sunol, CA
Chevron PM: Lead Consultant:
Consultant/Office: URS - Oakland
Consultant Prj. Mgr.: Joe Morgan
Consultant Phone #: 510-874-3201 Fax #: 510-874-3268
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Analyses Requested

Preservation Codes

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	___ Oxygenates	Lead 7420 ☐ 7421 ☐	BTEX - TO-14	TPH-g - TO-18
SVE-25-2/13/06	A			2/13/06	09:00		X									X	X
SVE-40-2/13/06	A			2/13/06	08:55		X									X	X

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

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

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Comments / Remarks

72 Hr TAT

Please Email Results to Joe Morgen Angela Liang Greg White of URS

Turnaround Time Requested (TAT) (please circle)

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

Data Package Options (please circle if required)

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

	Date	Time		Date	Time
Relinquished by:	2/13/06	15:00	Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by:		
Relinquished by Commercial Carrier: UPS FedEx Other			Received by:	2/14/06	0835
Temperature Upon Receipt N/A C°			Custody Seals Intact? Yes No	N/A	

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
C	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)	**l**	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 limit of quantitation, 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.

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.

U.S. EPA data qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

Analytical test results 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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