



HORIZON ENVIRONMENTAL INC.

Specialists in Site Assessment, Remedial Testing, Design and Operation

September 18, 2002

Alameda County
SEP 24 2002
Environmental Health

Mr. Scott Seery, R.E.H.S.
Department of Environmental Health
Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502 - 6577

Subject: **Results of Fuel Pipeline and Dispenser Soil Sampling**
Valero Service Station No. 3827
Former Exxon Station No. 7-3567
3192 Santa Rita Road, Pleasanton, California

Mr. Seery:

At the request of Ultramar Inc. – a Valero Company (Valero), Horizon Environmental Inc. (Horizon) is forwarding the enclosed Results of Fuel Pipeline and Dispenser Soil Sampling dated September 18, 2002 for the above-referenced site.

Please contact Horizon at (916) 939-2170 should you have any questions regarding this report.

Sincerely,

HORIZON ENVIRONMENTAL INC.

Kenny B. Mateik
Registered Geologist, C.E.G. No. 1935

Enclosure

c: Mr. Joe Aldridge, Ultramar Inc.



HORIZON ENVIRONMENTAL INC.

Specialists in Site Assessment, Remedial Testing, Design and Operation

20 2426

September 18, 2002

Mr. Joe Aldridge
Valero Companies, Inc.
685 West Third Street
Hanford, California 93230

Alameda County
SEP 24 2002
Environmental Health

Subject: **Results of Fuel Pipeline and Dispenser Soil Sampling**
Valero Service Station No. 3827
Former Exxon Station No. 7-3567
3192 Santa Rita Road, Pleasanton, California

Mr. Aldridge:

At the request of Ultramar Inc. – a Valero Company (Valero), Horizon Environmental Inc. (Horizon) performed soil sampling related to fuel pipeline replacement and dispenser upgrades at the above-referenced site. Valero Station No. 3827 is an operating service station located at 3192 Santa Rita Road in Pleasanton, California, as shown on the Site Vicinity Map (Figure 1). Site features include a station building with service bays, two fuel dispenser islands, and four underground storage tanks (USTs) situated on the property, as shown on the Site Plan (Figure 2). Three of the USTs are used for the storage of gasoline fuel and one UST is used for the storage of diesel fuel.

Environmental sampling work was conducted on August 9 and 23, 2002 utilizing Horizon Field Methods and Procedures (included as Attachment A), and in accordance with the Horizon Site Safety Plan dated August 8, 2002. Excavation and removal of the fuel distribution pipelines and dispensers was performed by JNS Excavating (JNS) of Clovis, California.

On August 9, 2002, Horizon personnel were at the subject site to collect soil samples from below the two diesel and six gasoline fuel dispensers and the associated distribution pipelines. Inspector Paul Smith from the Livermore - Pleasanton Fire Department (LPPFD) was onsite to witness the sample locations and procedures. Soil samples were collected from native soil at depths of approximately three to five feet below the fuel dispenser islands, and at depths of approximately three to seven feet below surface grade (bsg) in the fuel pipeline trenches. Additional soil samples were collected by Environmental Resolutions, Inc. (ERI) on behalf of Exxon.

On August 23, 2002, Horizon personnel returned to the site to collect soil samples from the stockpiled soil generated from an electrical trench excavation at the site. The soil sample locations are shown on the Site Plan (Figure 2). The soil samples were prepared and chilled for transport under Chain-of-Custody protocol and delivered to Kiff Analytical, a State-certified laboratory in Davis, California (ELAP Certification No. 2236).

The soil samples collected beneath the dispensers and pipelines were analyzed for combinations of the following: total petroleum hydrocarbons as diesel (TPHd) using Environmental Protection Agency (EPA) Method 8015 (modified), and / or total petroleum hydrocarbons as gasoline (TPHg); the aromatic gasoline constituents benzene, toluene, ethylbenzene and total xylenes (BTEX), and the fuel oxygenate methyl tertiary butyl ether (MTBE) using EPA Method 8260B. Laboratory analytical sheets and Chain-of-Custody reports for the soil samples are included as Attachment B. Results of the laboratory analyses are summarized on the attached Table 1.

A copy of this letter report should be forwarded to:

Paul Smith, Hazardous Materials Inspector
Livermore-Pleasanton Fire Department
4550 East Avenue
Livermore, California 94550

If you have any questions regarding this report, please call us at (916) 939-2170.

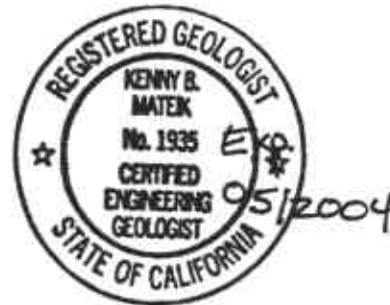
Sincerely,
HORIZON ENVIRONMENTAL INC.

R. Smith for

Craig J. Roth
Staff Geologist

Kenny B. Mateik

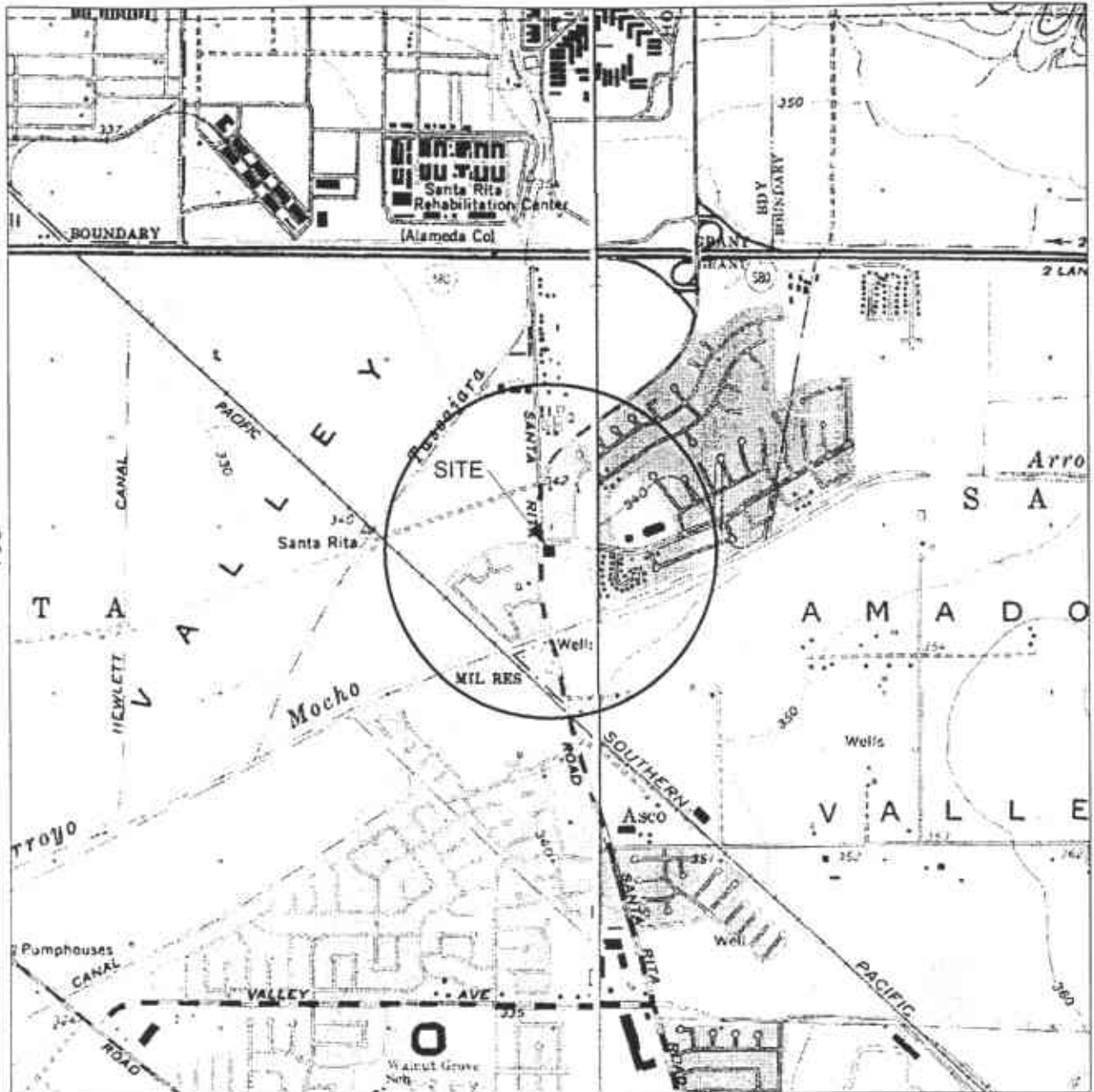
Kenny B. Mateik
Registered Geologist, C.E.G. No. 1935



Attachments: Figure 1, Site Vicinity Map
Figure 2, Site Plan

Table 1, Soil Analytical Data

- A: Field and Sampling Procedures
- B: Laboratory Analytical Reports and Chain-of-Custody Records



GENERAL NOTES:
 BASE MAP FROM U.S.G.S.
 DUBLIN & LIVERMORE, CA.
 7.5 MINUTE TOPOGRAPHIC
 PHOTOREVISED 1980



QUADRANGLE LOCATION



SCALE 1:24,000



NORTH



HORIZON ENVIRONMENTAL INC.

Project Number: 1827.11
 Prepared By: K. Maleik
 Reviewed By: G. Barker

Drawn By: M. LaCoste
 Date: 9/10/02
 Revised Date:

SITE LOCATION MAP

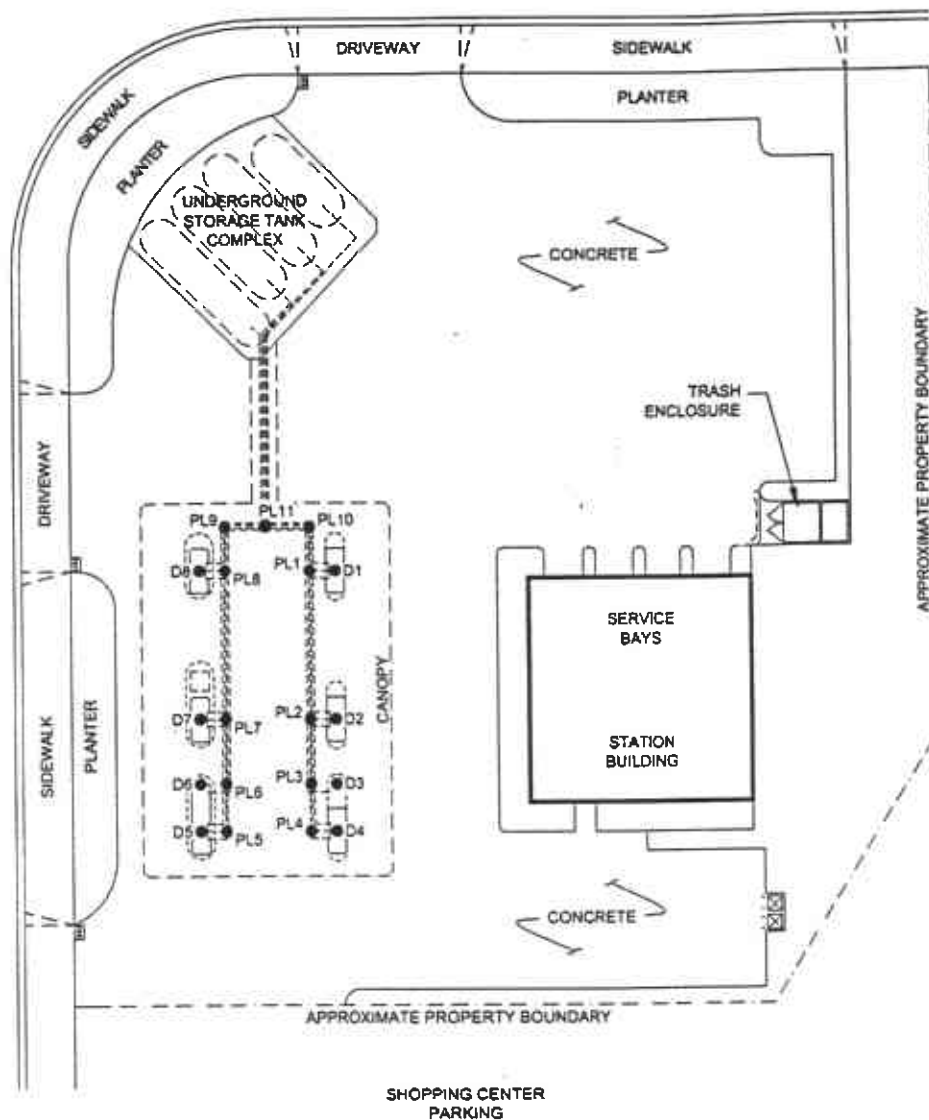
VALERO SERVICE STATION NO. 3827
 (FORMER EXXON STATION NO. 7-3567)
 3192 SANTA RITA ROAD
 PLEASANTON, CA.

FIGURE

1

WEST LAS POSITAS AVENUE

SANTA RITA ROAD



LEGEND:

● D8 SOIL SAMPLE LOCATION



HORIZON ENVIRONMENTAL INC.

Project Number: 1827.11
Prepared By: K. Matiek
Reviewed By: G. Barker

Drawn By: M. LaCoste
Date: 9/10/02
Revised Date:

SITE PLAN

VALERO SERVICE STATION NO. 3827
(FORMER EXXON STATION NO. 7-3567)
3192 SANTA RITA ROAD
PLEASANTON, CA.

FIGURE

2

Table 1 - Soil Analytical Data
Valero Station No. 3827
3192 Santa Rita Road, Pleasanton, California

Sample Number	Location on Figure 2	Date Sampled	Sample Depth (bsg)	TPHd (ppm)	TPHg (ppm)	B (ppm)	T (ppm)	E (ppm)	X (ppm)	MTBE (ppm)	TBA (ppm)	DIPE (ppm)	ETBE (ppm)	TAME (ppm)
S-7'-PL1	PL 1	08/09/02	7 feet	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.0059	<0.0050	<0.0050	<0.0050	<0.0050
S-5'-D1	D 1	08/09/02	5 feet	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
S-5'-PL2	PL 2	08/09/02	5 feet	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.014	<0.0050	<0.0050	<0.0050
S-4'-D2	D 2	08/09/02	4 feet	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
S-3'-D3	D 3	08/09/02	3 feet	<1.0	na	<0.0050	<0.0050	<0.0050	<0.0050	na	na	na	na	na
S-4'-PL3	PL 3	08/09/02	4 feet	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.015	<0.0050	<0.0050	<0.0050	<0.0050
S-4'-D4	D 4	08/09/02	4 feet	na	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.014	0.0050	<0.0050	<0.0050	<0.0050
S-4'-PL4	PL 4	08/09/02	4 feet	na	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.041	0.0068	<0.0050	<0.0050	<0.0050
S-4'-PL5	PL 5	08/09/02	4 feet	na	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.035	0.019	<0.0050	<0.0050	<0.0050
S-5'-D5	D 5	08/09/02	5 feet	na	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.12	0.040	<0.0050	<0.0050	<0.0050
S-4'-PL6	PL 6	08/09/02	4 feet	1.2	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.024	0.0081	<0.0050	<0.0050	<0.0050
S-4'-D6	D 6	08/09/02	4 feet	<1.0	na	<0.0050	<0.0050	<0.0050	<0.0050	na	na	na	na	na
S-4.5'-PL7	PL 7	08/09/02	4.5 feet	19	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.011	0.013	<0.0050	<0.0050	<0.0050
S-4'-D7	D 7	08/09/02	4 feet	na	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.019	<0.0050	<0.0050	<0.0050	<0.0050
S-5'-PL8	PL 8	08/09/02	5 feet	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.048	<0.0050	<0.0050	<0.0050	<0.0050
S-3'-D8	D 7	08/09/02	3 feet	na	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<u>0.19</u>	0.063	<0.0050	<0.0050	<0.0050
S-6'-PL9	PL 9	08/09/02	6 feet	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
S-6'-PL10	PL 10	08/09/02	6 feet	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
S-7'-PL11	PL 11	08/09/02	7 feet	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.0062	<0.0050	<0.0050	<0.0050	<0.0050
SP (A,B,C,D)	Soil Pile	08/23/02	Soil Pile	na	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	na	na	na	na	na

Notes:

TPHd = total petroleum hydrocarbons as diesel
 TPHg = total petroleum hydrocarbons as gasoline
 B = benzene
 T = toluene
 E = ethylbenzene
 X = xylenes

MTBE = methyl tertiary butyl ether
 TBA = tert butanol
 DIPE = diisopropyl ether
 ETBE = ethyl tert butyl ether
 TAME = tert amyl methyl ether

ppm = parts per million
 < = less than indicated detection level
 bsg = below surface grade
 PL = fuel Pipe Line
 D = Dispenser

ATTACHMENT A

FIELD METHODS AND PROCEDURES

HORIZON ENVIRONMENTAL INC.

FIELD METHODS AND PROCEDURES

The following section describes field procedures that will be completed by Horizon Environmental Inc. (Horizon) personnel in performance of the tasks involved with this project.

1.0 HEALTH AND SAFETY PLAN

Field work performed by Horizon and subcontractors at the site will be conducted according to guidelines established in a Site Health and Safety Plan (SHSP). The SHSP is a document that describes the hazards that may be encountered in the field and specifies protective equipment, work procedures, and emergency information. A copy of the SHSP will be at the site and available for reference by appropriate parties during work at the site.

2.0 SOIL EXCAVATION AND SAMPLING

If a mobile laboratory is not available to analyze excavated soil, the soil will be evaluated using a field calibrated (using isobutylene) Thermo-Environmental Instruments Model 580 Organic Vapor Meter (OVM) or equivalent instrument. This evaluation will be done upon arrival of the soil at the ground surface in the excavator bucket by removing the top portion of soil from the bucket, and then placing the intake probe of the OVM against the surface of the soil in the bucket. Field instruments such as the OVM are useful for measuring relative concentrations of vapor content, but cannot be used to measure levels of hydrocarbons with the accuracy of laboratory analysis.

Samples will be taken from the soil in the bucket by driving laboratory-cleaned brass sleeves into the soil. The samples will be sealed in the sleeves using Teflon sheets, plastic caps, and plastic zip-lock bags; labeled; and promptly placed in iced storage. If mobile laboratory or field subjective analyses suggest the presence of hydrocarbons in the soil, additional excavation and soil sampling will be performed, using similar methods. The excavation will be backfilled or fenced prior to departure from the site.

Composite characterization samples will be collected from soil stockpiles generated at the site. A composite sample is four sample locations (as discrete samples) per composite. The composite characterization samples will be collected from the stockpiled soil by selecting random locations accessible around the soil pile, removing approximately six inches of soil, and driving a clean brass sleeve into the soil pile at the selected location.

ATTACHMENT B

LABORATORY DATA SHEETS

AND

CHAIN OF CUSTODY REPORTS



Report Number : 27976

Date : 8/24/2002

Ken Mateik
Horizon Environmental
5011 Golden Foothill Pkwy., Suite 7
El Dorado Hills, CA 95762

Subject : 19 Soil Samples
Project Name : Valero Station #73567
Project Number : 1827.11
P.O. Number : 3827-

Dear Mr. Mateik,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink that reads "Joel Kiff". The signature is written in a cursive style with a large initial "J".

Joel Kiff




Report Number : 27976

Date : 8/24/2002

Subject : 19 Soil Samples
Project Name : Valero Station #73567
Project Number : 1827.11
P.O. Number : 3827-

Case Narrative

Hydrocarbons reported as TPH as Diesel do not exhibit a typical Diesel chromatographic pattern for samples S-4 1/2'-PL7 and S-4'-PL6.

Approved By:  Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 916-297-4800



Report Number : 27976

Date : 8/24/2002

Project Name : Valero Station #73567

Project Number : 1827.11

Sample : S-7'-PL1

Matrix : Soil

Lab Number : 27976-01

Sample Date :8/9/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Methyl-t-butyl ether (MTBE)	0.0059	0.0050	mg/Kg	EPA 8260B	8/23/2002
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	8/23/2002
Toluene - d8 (Surr)	99.6		% Recovery	EPA 8260B	8/23/2002
4-Bromofluorobenzene (Surr)	96.2		% Recovery	EPA 8260B	8/23/2002
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	8/17/2002
1-Chlorooctadecane (Diesel Surrogate)	102		% Recovery	M EPA 8015	8/17/2002

Approved By:  Joel Kiff



Report Number : 27976

Date : 8/24/2002

Project Name : Valero Station #73567

Project Number : 1827.11

Sample : S-5'-D1

Matrix : Soil

Lab Number : 27976-02

Sample Date :8/9/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	8/23/2002
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	8/23/2002
4-Bromofluorobenzene (Surr)	96.7		% Recovery	EPA 8260B	8/23/2002

Approved By:  Joel Kiff



Report Number : 27976

Date : 8/24/2002

Project Name : Valero Station #73567

Project Number : 1827.11

Sample : S-5'-PL2

Matrix : Soil

Lab Number : 27976-03

Sample Date :8/9/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Tert-Butanol	0.014	0.0050	mg/Kg	EPA 8260B	8/23/2002
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	8/23/2002
Toluene - d8 (Surr)	98.1		% Recovery	EPA 8260B	8/23/2002
4-Bromofluorobenzene (Surr)	99.8		% Recovery	EPA 8260B	8/23/2002
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	8/17/2002
1-Chlorooctadecane (Diesel Surrogate)	102		% Recovery	M EPA 8015	8/17/2002

Approved By:  Joel Kiff



Report Number : 27976

Date : 8/24/2002

Project Name : Valero Station #73567

Project Number : 1827.11

Sample : S-4'-D2

Matrix : Soil

Lab Number : 27976-04

Sample Date :8/9/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	8/23/2002
Toluene - d8 (Surr)	98.3		% Recovery	EPA 8260B	8/23/2002
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	8/23/2002

Approved By:  Joel Kiff



Report Number : 27976

Date : 8/24/2002

Project Name : Valero Station #73567

Project Number : 1827.11

Sample : S-3'-D3

Matrix : Soil

Lab Number : 27976-05

Sample Date :8/9/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/16/2002
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/16/2002
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/16/2002
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/16/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	8/16/2002
4-Bromofluorobenzene (Surr)	90.9		% Recovery	EPA 8260B	8/16/2002
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	8/17/2002
1-Chlorooctadecane (Diesel Surrogate)	108		% Recovery	M EPA 8015	8/17/2002

Approved By: Joel Kiff



Report Number : 27976

Date : 8/24/2002

Project Name : Valero Station #73567

Project Number : 1827.11

Sample : S-4'-PL3

Matrix : Soil

Lab Number : 27976-06

Sample Date :8/9/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/16/2002
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/16/2002
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/16/2002
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/16/2002
Methyl-t-butyl ether (MTBE)	0.015	0.0050	mg/Kg	EPA 8260B	8/16/2002
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/16/2002
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/16/2002
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/16/2002
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/16/2002
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	8/16/2002
Toluene - d8 (Surr)	99.8		% Recovery	EPA 8260B	8/16/2002
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	8/16/2002
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	8/17/2002
1-Chlorooctadecane (Diesel Surrogate)	114		% Recovery	M EPA 8015	8/17/2002

Approved By:  Joel Kiff



Report Number : 27976

Date : 8/24/2002

Project Name : Valero Station #73567

Project Number : 1827.11

Sample : S-4'-D4

Matrix : Soil

Lab Number : 27976-07

Sample Date : 8/9/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Methyl-t-butyl ether (MTBE)	0.014	0.0050	mg/Kg	EPA 8260B	8/23/2002
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Tert-Butanol	0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	8/23/2002
Toluene - d8 (Surr)	99.5		% Recovery	EPA 8260B	8/23/2002
4-Bromofluorobenzene (Surr)	99.8		% Recovery	EPA 8260B	8/23/2002

Approved By:  Joel Kiff



Report Number : 27976

Date : 8/24/2002

Project Name : Valero Station #73567

Project Number : 1827.11

Sample : S-4'-PL4

Matrix : Soil

Lab Number : 27976-08

Sample Date : 8/9/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/19/2002
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/19/2002
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/19/2002
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/19/2002
Methyl-t-butyl ether (MTBE)	0.041	0.0050	mg/Kg	EPA 8260B	8/19/2002
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/19/2002
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/19/2002
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/19/2002
Tert-Butanol	0.0068	0.0050	mg/Kg	EPA 8260B	8/19/2002
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	8/19/2002
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	8/19/2002
4-Bromofluorobenzene (Surr)	93.0		% Recovery	EPA 8260B	8/19/2002

Approved By:  Joel Kiff



Report Number : 27976

Date : 8/24/2002

Project Name : Valero Station #73567

Project Number : 1827.11

Sample : S-4'-PL5

Matrix : Soil

Lab Number : 27976-09

Sample Date :8/9/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/19/2002
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/19/2002
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/19/2002
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/19/2002
Methyl-t-butyl ether (MTBE)	0.035	0.0050	mg/Kg	EPA 8260B	8/19/2002
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/19/2002
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/19/2002
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/19/2002
Tert-Butanol	0.019	0.0050	mg/Kg	EPA 8260B	8/19/2002
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	8/19/2002
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	8/19/2002
4-Bromofluorobenzene (Surr)	93.4		% Recovery	EPA 8260B	8/19/2002

Approved By:  Joel Kiff



Report Number : 27976

Date : 8/24/2002

Project Name : Valero Station #73567

Project Number : 1827.11

Sample : S-5'-D5

Matrix : Soil

Lab Number : 27976-10

Sample Date :8/9/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/19/2002
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/19/2002
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/19/2002
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/19/2002
Methyl-t-butyl ether (MTBE)	0.12	0.0050	mg/Kg	EPA 8260B	8/19/2002
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/19/2002
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/19/2002
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/19/2002
Tert-Butanol	0.040	0.0050	mg/Kg	EPA 8260B	8/19/2002
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	8/19/2002
Toluene - d8 (Surr)	96.5		% Recovery	EPA 8260B	8/19/2002
4-Bromofluorobenzene (Surr)	95.7		% Recovery	EPA 8260B	8/19/2002

Approved By:  Joel Kiff



Report Number : 27976

Date : 8/24/2002

Project Name : Valero Station #73567

Project Number : 1827.11

Sample : S-4'-D6

Matrix : Soil

Lab Number : 27976-11

Sample Date : 8/9/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2002
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2002
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2002
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2002
Toluene - d8 (Surr)	99.7		% Recovery	EPA 8260B	8/17/2002
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	8/17/2002
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	8/17/2002
1-Chlorooctadecane (Diesel Surrogate)	106		% Recovery	M EPA 8015	8/17/2002

Approved By:  Joel Kiff



Report Number : 27976

Date : 8/24/2002

Project Name : Valero Station #73567

Project Number : 1827.11

Sample : S-4 1/2'-PL7

Matrix : Soil

Lab Number : 27976-12

Sample Date :8/9/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/21/2002
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/21/2002
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/21/2002
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/21/2002
Methyl-t-butyl ether (MTBE)	0.011	0.0050	mg/Kg	EPA 8260B	8/21/2002
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/21/2002
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/21/2002
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/21/2002
Tert-Butanol	0.013	0.0050	mg/Kg	EPA 8260B	8/21/2002
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	8/21/2002
Toluene - d8 (Surr)	95.4		% Recovery	EPA 8260B	8/21/2002
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	8/21/2002
TPH as Diesel	19	1.0	mg/Kg	M EPA 8015	8/17/2002
1-Chlorooctadecane (Diesel Surrogate)	103		% Recovery	M EPA 8015	8/17/2002

Approved By:  Joel Kiff



Report Number : 27976

Date : 8/24/2002

Project Name : Valero Station #73567

Project Number : 1827.11

Sample : S-4'-D7

Matrix : Soil

Lab Number : 27976-13

Sample Date :8/9/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/19/2002
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/19/2002
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/19/2002
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/19/2002
Methyl-t-butyl ether (MTBE)	0.019	0.0050	mg/Kg	EPA 8260B	8/19/2002
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/19/2002
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/19/2002
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/19/2002
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/19/2002
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	8/19/2002
Toluene - d8 (Surr)	99.6		% Recovery	EPA 8260B	8/19/2002
4-Bromofluorobenzene (Surr)	99.8		% Recovery	EPA 8260B	8/19/2002

Approved By:  Joel Kiff



Report Number : 27976

Date : 8/24/2002

Project Name : Valero Station #73567

Project Number : 1827.11

Sample : S-5'-PL8

Matrix : Soil

Lab Number : 27976-14

Sample Date : 8/9/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2002
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2002
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2002
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2002
Methyl-t-butyl ether (MTBE)	0.048	0.0050	mg/Kg	EPA 8260B	8/17/2002
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2002
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2002
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2002
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2002
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	8/17/2002
Toluene - d8 (Surr)	99.1		% Recovery	EPA 8260B	8/17/2002
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	8/17/2002
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	8/17/2002
1-Chlorooctadecane (Diesel Surrogate)	104		% Recovery	M EPA 8015	8/17/2002

Approved By:  Joel Kiff



Report Number : 27976

Date : 8/24/2002

Project Name : Valero Station #73567

Project Number : 1827.11

Sample : S-6'-PL9

Matrix : Soil

Lab Number : 27976-15

Sample Date : 8/9/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/16/2002
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/16/2002
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/16/2002
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/16/2002
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/16/2002
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/16/2002
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/16/2002
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/16/2002
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/16/2002
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	8/16/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	8/16/2002
4-Bromofluorobenzene (Surr)	91.5		% Recovery	EPA 8260B	8/16/2002
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	8/17/2002
1-Chlorooctadecane (Diesel Surrogate)	103		% Recovery	M EPA 8015	8/17/2002

Approved By:  Joel Kiff



Report Number : 27976

Date : 8/24/2002

Project Name : Valero Station #73567

Project Number : 1827.11

Sample : S-3'-D8

Matrix : Soil

Lab Number : 27976-16

Sample Date :8/9/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/21/2002
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/21/2002
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/21/2002
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/21/2002
Methyl-t-butyl ether (MTBE)	0.19	0.0050	mg/Kg	EPA 8260B	8/21/2002
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/21/2002
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/21/2002
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/21/2002
Tert-Butanol	0.063	0.0050	mg/Kg	EPA 8260B	8/21/2002
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	8/21/2002
Toluene - d8 (Surr)	95.5		% Recovery	EPA 8260B	8/21/2002
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	8/21/2002

Approved By: Joel Kiff



Report Number : 27976

Date : 8/24/2002

Project Name : Valero Station #73567

Project Number : 1827.11

Sample : S-4'-PL6

Matrix : Soil

Lab Number : 27976-17

Sample Date :8/9/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Methyl-t-butyl ether (MTBE)	0.024	0.0050	mg/Kg	EPA 8260B	8/23/2002
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/2002
Tert-Butanol	0.0081	0.0050	mg/Kg	EPA 8260B	8/23/2002
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	8/23/2002
Toluene - d8 (Surr)	98.4		% Recovery	EPA 8260B	8/23/2002
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	8/23/2002
TPH as Diesel	1.2	1.0	mg/Kg	M EPA 8015	8/17/2002
1-Chlorooctadecane (Diesel Surrogate)	110		% Recovery	M EPA 8015	8/17/2002

Approved By:  Joel Kiff



Report Number : 27976

Date : 8/24/2002

Project Name : Valero Station #73567

Project Number : 1827.11

Sample : S-7'-PL11

Matrix : Soil

Lab Number : 27976-18

Sample Date : 8/9/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2002
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2002
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2002
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2002
Methyl-t-butyl ether (MTBE)	0.0062	0.0050	mg/Kg	EPA 8260B	8/17/2002
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2002
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2002
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2002
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2002
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	8/17/2002
Toluene - d8 (Surr)	99.2		% Recovery	EPA 8260B	8/17/2002
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	8/17/2002
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	8/17/2002
1-Chlorooctadecane (Diesel Surrogate)	105		% Recovery	M EPA 8015	8/17/2002

Approved By:  Joel Kiff



Report Number : 27976

Date : 8/24/2002

Project Name : Valero Station #73567

Project Number : 1827.11

Sample : S-6'-PL10

Matrix : Soil

Lab Number : 27976-19

Sample Date :8/9/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2002
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2002
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2002
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2002
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2002
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2002
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2002
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2002
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2002
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	8/17/2002
Toluene - d8 (Surr)	99.8		% Recovery	EPA 8260B	8/17/2002
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	8/17/2002
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	8/17/2002
1-Chlorooctadecane (Diesel Surrogate)	105		% Recovery	M EPA 8015	8/17/2002

Approved By: Joel Kiff

Report Number : 27976

Date : 8/24/2002

QC Report : Method Blank Data

Project Name : **Valero Station #73567**

Project Number : **1827.11**

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	8/16/2002
1-Chlorooctadecane (Diesel Surrogate)	107		%	M EPA 8015	8/16/2002
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/16/2002
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/16/2002
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/16/2002
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/16/2002
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/16/2002
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/16/2002
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/16/2002
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/16/2002
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/16/2002
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	8/16/2002
Toluene - d8 (Surr)	98.4		%	EPA 8260B	8/16/2002
4-Bromofluorobenzene (Surr)	104		%	EPA 8260B	8/16/2002

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
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Approved By: Joel Kiff
Joel Kiff

QC Report : Matrix Spike/ Matrix Spike Duplicate

Report Number : 27976

Date : 8/24/2002

Project Name : Valero Station #73567

Project Number : 1827.11

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	27976-01	<0.0050	0.0391	0.0390	0.0361	0.0330	mg/Kg	EPA 8260B	8/16/02	92.3	84.7	8.58	70-130	25
Toluene	27976-01	<0.0050	0.0391	0.0390	0.0346	0.0315	mg/Kg	EPA 8260B	8/16/02	88.5	80.9	8.94	70-130	25
Tert-Butanol	27976-01	<0.0050	0.196	0.195	0.173	0.161	mg/Kg	EPA 8260B	8/16/02	88.5	82.8	6.62	70-130	25
Methyl-t-Butyl Ether	27976-01	0.0077	0.0391	0.0390	0.0436	0.0402	mg/Kg	EPA 8260B	8/16/02	91.9	83.5	9.58	70-130	25
TPH as Diesel	28015-01	5.1	20.0	20.0	24.0	21.5	mg/Kg	M EPA 8015	8/16/02	95.5	85.6	10.9	60-140	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 27976

Date : 8/24/2002

QC Report : Laboratory Control Sample (LCS)

Project Name : **Valero Station #73567**

Project Number : **1827.11**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0400	mg/Kg	EPA 8260B	8/16/02	100	70-130
Toluene	0.0400	mg/Kg	EPA 8260B	8/16/02	97.5	70-130
Tert-Butanol	0.200	mg/Kg	EPA 8260B	8/16/02	93.9	70-130
Methyl-t-Butyl Ether	0.0400	mg/Kg	EPA 8260B	8/16/02	98.4	70-130
TPH as Diesel	20.0	mg/Kg	M EPA 8015	8/16/02	97.0	70-130

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By:  Joel Kiff



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Lab No. 29976 Page 1 of 2

Project Contact (Hardcopy or PDF To):
KEN MATEIK

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Phone No.: **916-939-2170** FAX No.: **916-939-2172**

Project Number: **1827.11** P.O. No.: **3827-**

Project Name:
Valero Station #73567

Project Address:
**3192 Santa Rita Road
 Pleasanton, CA**

California EDF Report? Yes No

Recommended but not mandatory to complete this section:
 Sampling Company Log Code: **HEIE**

Global ID: _____

EDF Deliverable To (Email Address): _____

Sampler Signature:
Ken Mateik

Chain-of-Custody Record and Analysis Request

Sample Designation	Sampling		Container				Preservative				Matrix		BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	TAT	For Lab Use Only		
	Date	Time	40 ml VOA	SLEEVE	HCl	HNO ₃	ICE	NONE	WATER	SOIL																			
S-7'-PL1	8/9/02	10:01	1					X						X			X												01
S-5'-D1		10:24	1					X									X												02
S-5'-PL2		10:46	1					X									X												03
S-4'-D2		11:11	1					X									X												04
S-3'-D3		11:38	1					X				X	X	X			X												05
S-4'-PL3		11:48	1					X					X				X												06
S-4'-D4		13:02	1					X									X												07
S-4'-PL4		13:09	1					X									X												08
S-4'-PL5		13:15	1					X									X												09
S-5'-D5		13:26	1					X									X												10

Relinquished by: *Ken Mateik / Horizon* Date: 8/12/02 Time: 11:41 AM Received by: _____

Relinquished by: _____ Date: _____ Time: _____ Received by: _____

Relinquished by: _____ Date: 8/12/02 Time: 11:41 Received by Laboratory: *Harold Brown KIFF*

Remarks: **Standard TAT**

Bill to: *Valero* ~~Horizon~~ Attn: *Joe Aldridge*



720 Olive Drive, Suite D
 Davis, CA 95616
 Lab: 530.297.4800
 Fax: 530.297.4808

Lab No. 27976 Page 2 of 2

Project Contact (Hardcopy or PDF To): KEN MATEIK
 California EDF Report? Yes No

Company/Address: HORIZON ENVIRONMENTAL
 Recommended but not mandatory to complete this section:
 Sampling Company Log Code: HEIE

Phone No.: 916-939-2170 FAX No.: 916-939-2172
 Project Number: 1827.11 P.O. No.: 3827-
 Global ID: _____

Project Name: Valero Station # 73567
 Project Address: 3192 Santa Rita Road Pleasanton, CA
 EDF Deliverable To (Email Address): _____

Sampler Signature: Kew Mateik

Chain-of-Custody Record and Analysis Request

Analysis Request

Sample Designation	Sampling		Container				Preservative				Matrix		BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2)	TOTAL (X) W.E.T. (X)	TAT	For Lab Use Only						
	Date	Time	40 ml VOA	SLEEVE	HCl	HNO ₃	ICE	NONE	WATER	SOIL																								
S-4'-D6	8/9/02	13:47	1					X		X		X	X																					
S-4 1/2'-PL7		14:00	1					X		X			X				X																	11
S-4'-D7		14:13	1					X		X			X				X																	12
S-5'-PL8		14:25	1					X		X			X				X																	13
S-6'-PL9		14:42	1					X		X			X				X																	14
S-3'-D8		14:48	1					X		X			X				X																	15
S-4'-PL6		14:59	1					X		X			X				X																	16
S-7'-PL11		15:23	1					X		X			X				X																	17
S-6'-PL10		15:30	1					X		X			X				X																	18
																																		19

Relinquished by: Kew Mateik / Horizon Date: 8/12/02 Time: 11:41 AM
 Relinquished by: _____ Date: _____ Time: _____ Received by: _____
 Relinquished by: _____ Date: 081202 Time: 1141 Received by Laboratory: Harold Brown KIFF

Remarks: Standard TAT
 Bill to: Valero Attn: Joe Aldridge



Report Number : 28206

Date : 8/26/02

Ken Mateik
Horizon Environmental
5011 Golden Foothill Pkwy., Suite 7
El Dorado Hills, CA 95762

Subject : 1 Soil Sample
Project Name : Valero Station No. 73567
Project Number : 1827.11
P.O. Number : 3827-

Dear Mr. Mateik,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink that reads "Joel Kiff". The signature is written in a cursive style with a large initial "J".

Joel Kiff



Report Number : 28206

Date : 8/26/02

Project Name : Valero Station No. 73567

Project Number : 1827.11

Sample : SP (A,B,C,D)

Matrix : Soil

Lab Number : 28206-01

Sample Date :8/23/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/02
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/02
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/02
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/02
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/23/02
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	8/23/02
Toluene - d8 (Surr)	94.1		% Recovery	EPA 8260B	8/23/02
4-Bromofluorobenzene (Surr)	93.8		% Recovery	EPA 8260B	8/23/02

Approved By: Joel Kiff

Report Number : 28206

Date : 8/26/02

QC Report : Method Blank Data

Project Name : **Valero Station No. 73567**

Project Number : **1827.11**

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/24/02
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/24/02
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/24/02
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/24/02
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/24/02
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	8/24/02
Toluene - d8 (Surr)	99.9		%	EPA 8260B	8/24/02
4-Bromofluorobenzene (Surr)	101		%	EPA 8260B	8/24/02

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
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Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 28206

Date : 8/26/02

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : Valero Station No. 73567

Project Number : 1827.11

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	28174-04	<0.0050	0.202	0.202	0.205	0.203	mg/Kg	EPA 8260B	8/23/02	102	101	0.940	70-130	25
Toluene	28174-04	<0.0050	0.202	0.202	0.203	0.202	mg/Kg	EPA 8260B	8/23/02	100	100	0.498	70-130	25
Tert-Butanol	28174-04	<0.0050	1.01	1.01	0.928	0.950	mg/Kg	EPA 8260B	8/23/02	91.8	94.0	2.36	70-130	25
Methyl-t-Butyl Ether	28174-04	<0.0050	0.202	0.202	0.195	0.190	mg/Kg	EPA 8260B	8/23/02	96.4	93.9	2.65	70-130	25

Approved By:  Joel Kiff

Report Number : 28206

Date : 8/26/02

QC Report : Laboratory Control Sample (LCS)

Project Name : Valero Station No. 73567

Project Number : 1827.11

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0395	mg/Kg	EPA 8260B	8/23/02	101	70-130
Toluene	0.0395	mg/Kg	EPA 8260B	8/23/02	101	70-130
Tert-Butanol	0.198	mg/Kg	EPA 8260B	8/23/02	91.4	70-130
Methyl-t-Butyl Ether	0.0395	mg/Kg	EPA 8260B	8/23/02	98.7	70-130

KIFF ANALYTICAL, LLC

Approved By:  _____
Joel Kiff

Calscience
Environmental
Laboratories, Inc.

August 26, 2002

Joel Kiff
Kiff Analytical
720 Olive Drive, Suite D1
Davis, CA 95616-4740

Subject: **Calscience Work Order No.: 02-08-1161**
Client Reference: **Valero Station No. 73567**

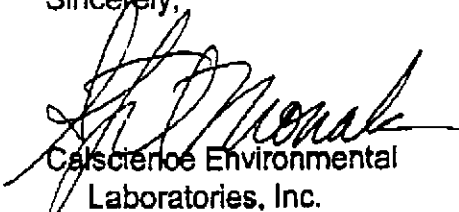
Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 8/24/2002 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,


Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager


Michael J. Crisostomo
Quality Assurance Manager

Kiff Analytical
 720 Olive Drive, Suite D1
 Davis, CA 95616-4740

Date Received: 08/24/02
 Work Order No: 02-08-1161
 Preparation: Total Digestion
 Method: EPA 7421

Project: Valero Station No. 73567

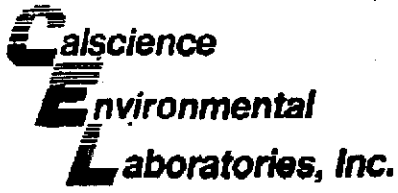
Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
SP (A,B,C,D)	02-08-1161-1	08/23/02	Solid	08/24/02	08/28/02	020824L03

Parameter	Result	RL	DF	Qual	Units
Lead	13.5	2.0	8		mg/kg
Method Blank		089-07-021-24	N/A		

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.250	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate

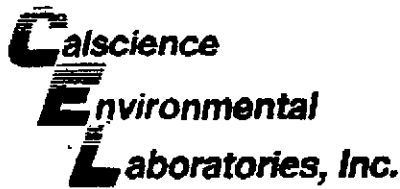
Kiff Analytical
 720 Olive Drive, Suite D1
 Davis, CA 95616-4740

Date Received: 08/24/02
 Work Order No: 02-08-1161
 Preparation: Total Digestion
 Method: EPA 7421

Project: Valero Station No. 73567

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SP (A,B,C,D)	Solid	GFAA	08/24/02	08/26/02	020824503

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	66	98	50-130	5	0-20	



Quality Control - LCS/LCS Duplicate

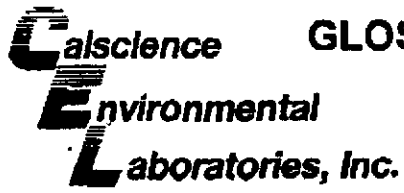
Kiff Analytical
720 Olive Drive, Suite D1
Davis, CA 95616-4740

Date Received: 08/24/02
Work Order No: 02-08-1161
Preparation: Total Digestion
Method: EPA 7421

Project: Valero Station No. 73567

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-021-24	Solid	GFAA	08/24/02	08/26/02	020824L03

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	101	102	50-130	1	0-20	



GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 02-08-1161

<u>Qualifier</u>	<u>Definition</u>
ND	Not detected at indicated reporting limit.



720 Olive Drive, Suite D
 Davis, CA 95616
 Lab: 530.297.4800
 Fax: 530.297.4803

Cal Science Environmental
 7440 Lincoln Way
 Garden Grove, CA 92841
 714-895-5494

02-08-1161

Lab No. _____ Page 1 of 1

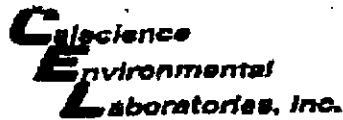
Project Contact (Hardcopy or PDF to): **Joel Kiff** EDF Report? Yes No Chain-of-Custody Record and Analysis Request

Company/Address: **Kiff Analytical, LLC** Recommended but not mandatory to complete this section:
 Phone No.: FAX No.: Sampling Company Log Code:
 Project Number: **1827.11** P.O. No.: **28206** Global ID:
 EDF Deliverable to (Email Address):

Project Name: **Valero Station No. 73567** E-mail address: **inbox@kiffanalytical.com**

Sample Designation	Sampling		Container				Preservative				Matrix		Lead (7421/239.2) Total	Date due:	For Lab Use Only
	Date	Time	Glass Jar	Poly	Amber	HCl	HNO3	ICE	NONE	WATER	SOIL				
SP (A,B,C,D)	8/23/02	14:20	1					X	X		X	X		August 25, 2002	

Relinquished by: <i>Michelle Woodworth / Kiff Analytical</i>	Date: <i>8/23/02</i>	Time: <i>1725</i>	Received by:	Remarks: Return Shipped Coolers Approved By: Steve Nowak @ CSE
Relinquished by:	Date:	Time:	Received by:	
Relinquished by: <i>Cal overnight</i>	Date: <i>8/24</i>	Time: <i>13:30</i>	Received by Laboratory: <i>[Signature]</i>	



WORK ORDER #: 02-08-1161

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: KIFF

DATE: 8/24/02

TEMPERATURE - SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- Chilled, cooler with temperature blank provided.
- Chilled, cooler without temperature blank.
- Chilled and placed in cooler with wet ice.
- Ambient and placed in cooler with wet ice.
- Ambient temperature.
- °C Temperature blank.

LABORATORY (Other than Calscience Courier):

- 3 °C Temperature blank.
- °C IR thermometer.
- Ambient temperature.

Initial: PM

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: No (Not Intact): _____ Not Applicable (N/A): 1

Initial: PM

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with custody papers.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on sample label(s).....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VOA vial(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initial: PM

COMMENTS:



720 Olive Drive
 Davis, CA 95616
 Lab: 530.297.4800
 Fax: 530.297.4808

Lab No. _____

Page 1 of 1

28206

Project Contact (Hardcopy or PDF To):

California EDF Report? Yes No

Chain-of-Custody Record and Analysis Request

KEN MATEIK

Company / Address:

Recommended but not mandatory to complete this section:

HORIZON ENVIRONMENTAL, INC.
 El Dorado Hills, CA 95762

Sampling Company Log Code:

Phone No.:

Fax No.:

Global ID:

916-939-2170

916-939-2172

Project Number:

P.O. No.:

EDF Deliverable To (Email Address):

1827.11

3827 -

Project Name:

Sampler

Valero Station No. 73567

Signature: *[Handwritten Signature]*

Analysis Request

Project Address:

Sampling

Container

Preservative

Matrix

3192 Santa Rita Road, Pleasanton

Sample Designation

Date

Time

40 ml VOA

SLEEVE

POLY

AMBER

TEDLAR BAG

HCl

HNO₃

ICE

NONE

WATER

SOIL

AIR

BTEX (8021B)

BTEX/TPH Gas/MTBE (8021B/M8015)

TPH as Diesel (M8015)

TPH as Motor Oil (M8015)

TPH Gas/BTEX/MTBE (8260B)

5 Oxygenates/TPH Gas (8260B)

7 Oxygenates/TPH Gas (8260B)

5 Oxygenates (8260B)

7 Oxygenates (8260B)

Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)

EPA 8260B (Full List)

Volatile Hydrocarbons (EPA 8260B)

Lead (7421/239.2) TOTAL M.E.T.

TAT

12hr
 24hr
 48hr
 72hr
 1wk
 2wk

For Lab Use Only

SP (A,B,C,D)

8/25/02

1400

4

X

X

X

X

12hr

[Handwritten mark]

Relinquished by: *[Handwritten Signature]*

Date

Time

Received by:

Remarks:

8/25/02 1655

Relinquished by:

Date

Time

Received by:

12 - Hour RUSH Turn Around Time

Relinquished by:

Date

Time

Received by Laboratory:

Bill to:

8/22/02 1655

[Handwritten Signature]

ULTRAMAR Attention: Joe Aldridge