

Ro-2527



**UNDERGROUND STORAGE  
TANK REMOVAL  
REPORT**

December 17, 2002

501 El Charro Road  
Pleasanton, California

Prepared For:  
Mr. Jay Carpenter  
DCM Construction & Services, Inc.  
7172 Regional Street, #139  
Dublin, CA 94568

OAKLAND ▪ SACRAMENTO  
SEATTLE ▪ LOS ANGELES

ACC Project Number 6546-004.01

RECEIVED  
1-7-03 PW

December 17, 2002

Mr. Jay Carpenter  
DCM Construction & Services, Inc.  
7172 Regional Street, #139  
Dublin, CA 94568

Re: Underground Storage Tank Closure Report  
Vulcan Materials, 501 El Charro Road, Pleasanton, California  
*ACC Project No. 6546-004.00*

Dear Mr. Carpenter:

Enclosed please find two copies of the Underground Storage Tank (UST) Closure Report for services performed at Vulcan Materials Asphalt, Sand and Gravel Facility, Pleasanton, California (Site).

## **BACKGROUND**

ACC Environmental Consultants (ACC) was contracted by DCM Construction (DCM) of Dublin, California to perform required soil sampling related to the removal of two USTs at the Site located at 501 El Charro Road, Pleasanton (Figure 1).

## **OBSERVATIONS**

ACC witnessed the removal of the USTs on November 5, 2002. Prior to field activities, appropriate permits were obtained by DCM. UST removals were witnessed by a representative from the Alameda Fire Department and Mr. Robert Weston of the Alameda County Health Care Services Agency (ACHCSA). The excavation, UST removal and backfill work were performed by DCM under state licensed contractor number 745353, in accordance with regulatory requirements. ACC documented the subsurface work during the UST removal procedures.

The two USTs were designated Tank 1 and Tank 2 by the regulatory agencies. The locations of the former USTs are illustrated on Figure 2. Tank 1 was a 12,000-gallon diesel UST with approximate dimensions of 30 feet long by 9.5 feet wide. Tank 2 was a 6,000-gallon gasoline UST with approximate dimensions of 18 feet long by 9.5 feet wide. The USTs were situated side-by-side and located 4 feet below ground surface (bgs).

ACC collected two representative soil samples under each UST. Based on concerns of the ACHCSA regarding the distance of the five dispenser islands from the USTs, ACC collected representative soil samples under each dispenser. These dispenser soil samples also served as confirmation soil samples for product piping runs.

## FIELD ACTIVITIES

Upon excavation, the bottoms of the USTs were found to be at a depth of approximately 12.5 feet below ground surface (bgs) under Tank 1, and 11.5 feet bgs under Tank 2. Product lines connected to dispenser islands were observed in the UST excavation. On November 5, 2002, DCM removed the USTs from the ground. Prior to removal, the USTs were triple-rinsed and volatile vapors were displaced with dry ice, rendering both tanks inert. Upon removal, the USTs were observed to be constructed of double-walled steel and in good condition. The USTs were loaded and hauled away by Ecology Control Industries under EPA Waste ID number CAC001438512. Following removal of the USTs, the excavation was backfilled with gravel and clean fill material by DCM.

Native soil in the excavation consisted of an upper layer of loose sandy soil above and a lower layer of dark brown clayey soil with little moisture present. Following removal of the two USTs, four confirmation soil samples were collected from the excavation at select depths ranging from 14 feet bgs under Tank 1 to 12.5 to 13 feet bgs under Tank 2. Under the direction the ACHCSA, soils underneath the dispenser islands were sampled. Dispensers D1 through D4 handled diesel fuel and dispenser D5 handled gasoline. Soil underneath each dispenser was removed until a representative sample could be collected approximately one foot below each dispenser foundation. Dispenser and sample locations are shown on Figure 3.

Soil generated during excavation was temporarily stockpiled onsite. Four soil samples were collected from the stockpile (designated SP-A through SP-D) and composited by the laboratory prior to analysis. Stockpile sample locations are illustrated on Figure 4.

All soil samples were collected in pre-cleaned brass liners, covered with Teflon<sup>®</sup> tape and tight fitting plastic end caps, labeled, placed in a pre-chilled, insulated container and submitted following chain of custody protocol to STL San Francisco, Inc. (STL SF), a state-certified analytical laboratory. Sample depths were approved onsite by Mr. Robert Weston of Alameda County. In accordance with California Regional Water Quality Control Board guidelines, soil samples for Tank 1, the soil stockpile, and the diesel dispensers D1 through D4 were analyzed for total petroleum hydrocarbons as diesel (TPHd) and for total petroleum hydrocarbons as gasoline (TPHg) and other fuel oxygenates by EPA Methods 8260B and 8015 Modified. Soil samples for Tank 2, the soil stockpile and the single gasoline dispenser D5, were analyzed for TPHg, and other fuel oxygenates by EPA Methods 8260B and Total Lead by EPA Method 6010B. Soil sample analytical results are summarized in Table 1 and copies of the laboratory reports and chain of custody record are attached to the Report.

## DISCUSSION

During UST removals, no field indications of a hydrocarbon release were noted. Excavated soil and UST backfill material displayed no field indications of impact such as characteristic odor, photoionization detector (PID) reading, and soil discoloration. Confirmation soil samples collected in native soil under the USTs reported some detectable concentrations of petroleum hydrocarbons, specifically T1F-12.4' of 31 parts per million (ppm) TPHg, 1,800 ppm TPHd, and 2.1 ppm total xylenes. Only one representative soil sample was taken at this depth and location per the request of ACHCSA.

## CONCLUSIONS

Based on field observations and soil sample analytical results, ACC concludes:

- The USTs were found to be in good condition with no visible holes and no characteristic odor or soil discoloration was noted in surficial soil beneath the former USTs;
- Lead concentrations were minor and appear to be indicative of naturally occurring levels;
- Analytical results of soil samples collected from beneath the former USTs, the soil stockpiles, and the dispenser islands reported some minor concentrations of TPHd, TPHg, and BTEX at soil sample point T1F-12.4';
- Minor petroleum hydrocarbon impacts only were reported in soil from the underground storage of gasoline and diesel fuels and can be expected to attenuate naturally with time, and;
- Based on the location and future use of the Site, no further subsurface investigation is warranted in regards to the former USTs.

If you have any questions concerning this report of the findings of the work, please contact me at (510) 638-8400, extension 109.

Sincerely,



David R. DeMent, RG, REA II  
Environmental Division Manager

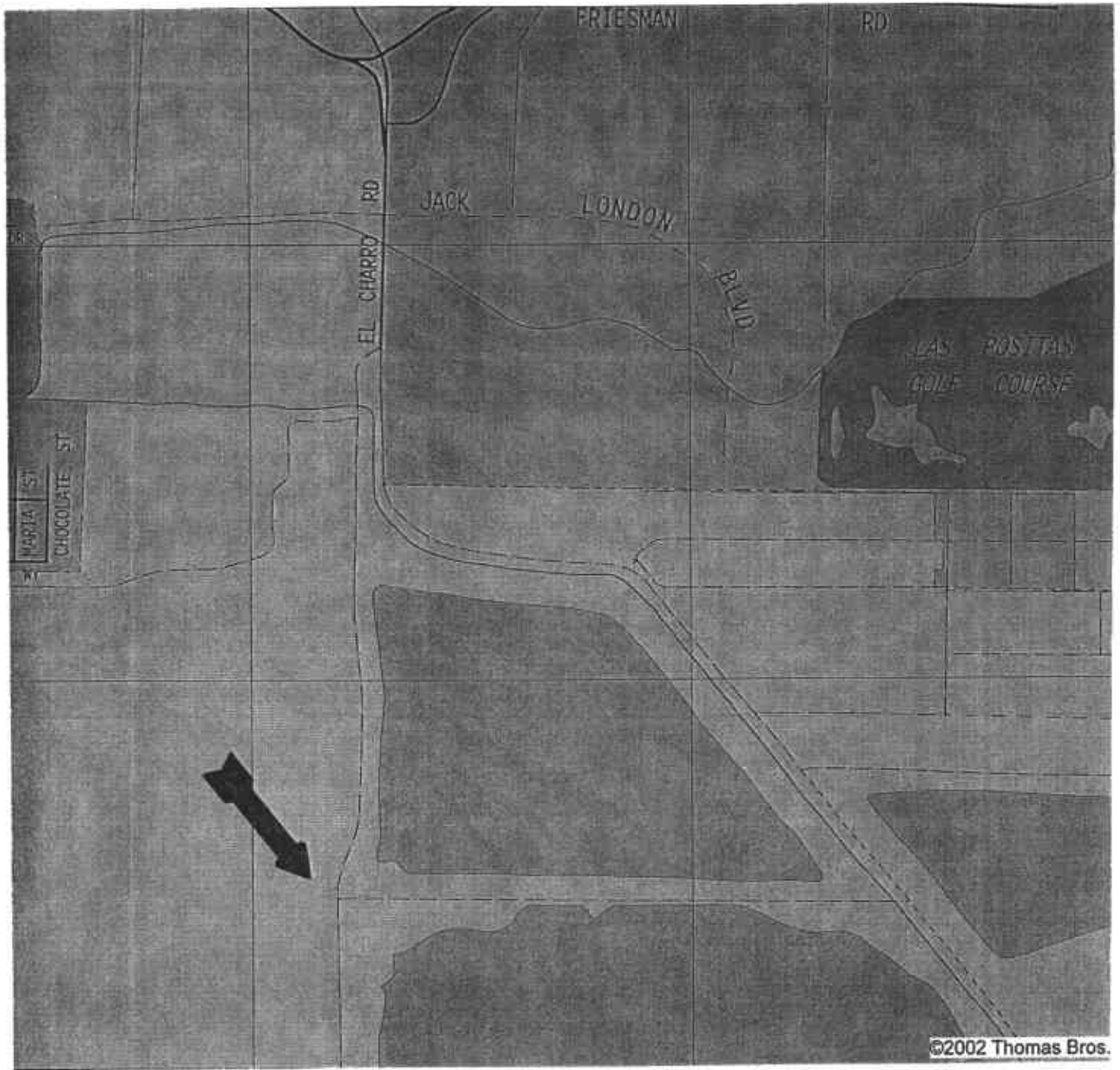
/ejg:drd

### Attachments

cc: Mr. Ward Fielding, Vulcan Materials

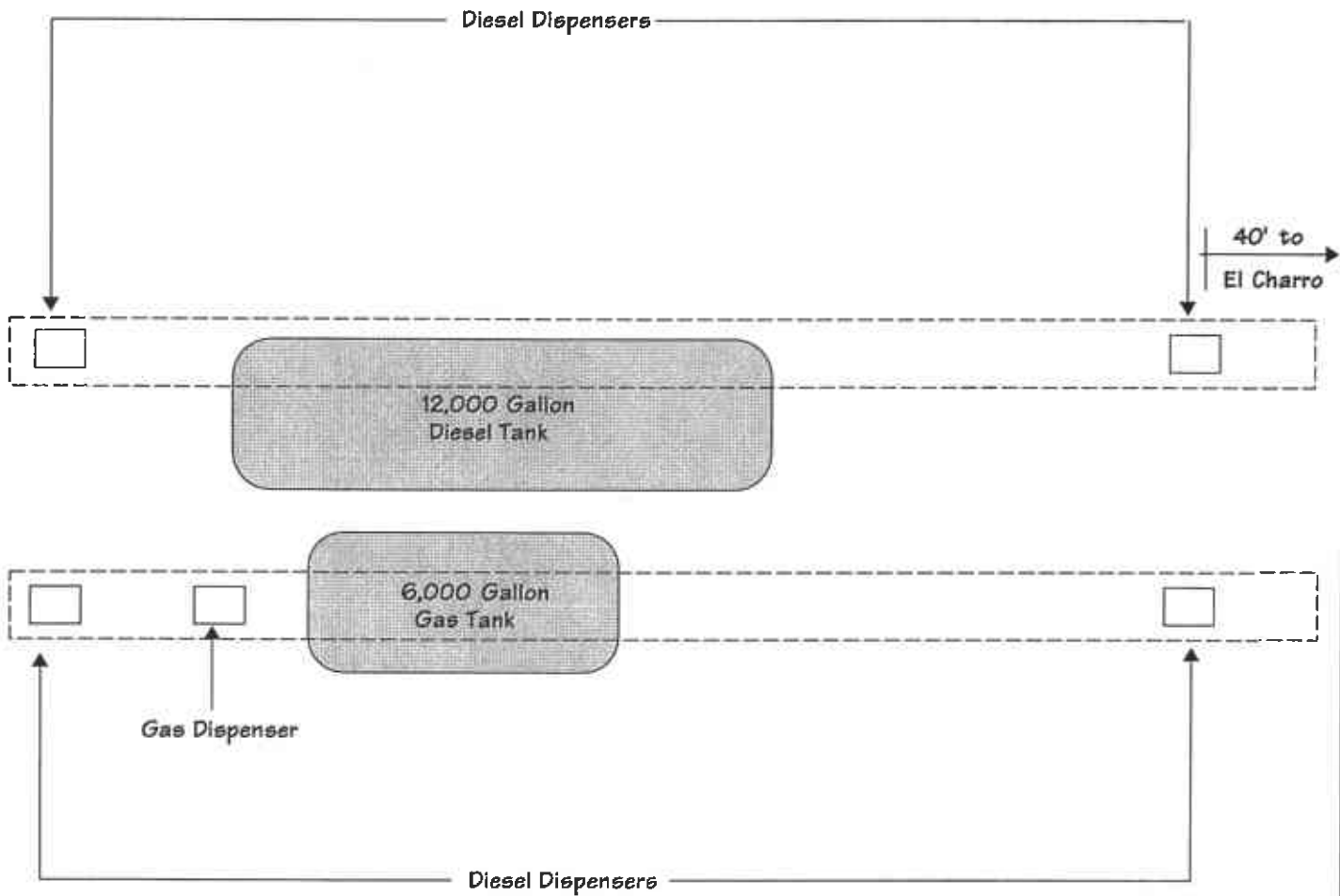
**FIGURES**

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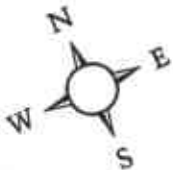
Source: The Thomas Guide 2002

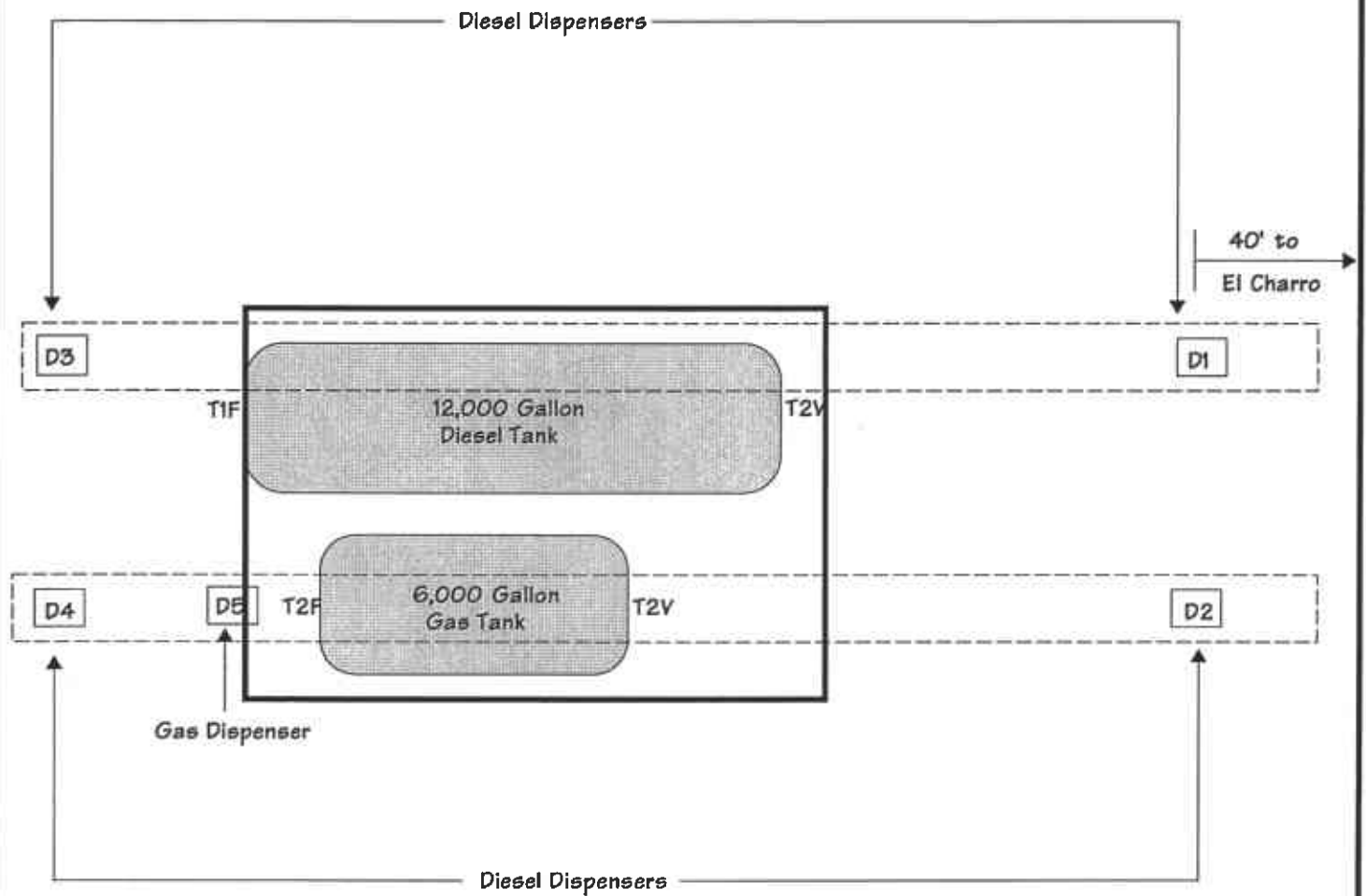
<b>Title: Location Map          Vulcan Materials          501 El Charro Road          Pleasanton, California</b>	
Figure Number: 1	Scale: None
Project Number: 6546-004.00	Drawn By: EJG
<b>A•C•C</b> ENVIRONMENTAL CONSULTANTS 7977 Capwell Drive, Suite 100 Oakland, California 94621 (510) 638-8400 Fax (510) 638-8404	Date: 12/17/02




**Legend**

-  - Former Location of Dispenser Islands
-  - Location of Dispensers
-  - Location of Underground Storage Tanks

<b>Title: Site Plan</b> <b>Yulcan Materials</b> <b>501 El Charro Road</b> <b>Pleasanton, California</b>	
Figure Number: 2	Scale: 1" = 10'
Project No.: 6546-004.00	Drawn By: EJG
<b>A · C · C</b> <b>ENVIRONMENTAL</b> <b>CONSULTANTS</b>	Date: 12/17/02
	
7977 Capwell Drive, Suite 100 Oakland, California 94621 (510) 638-8400 Fax: (510) 638-8404	



### Legend

- T2V - Soil Sampling Locations Beneath the USTs
- D5 - Soil Sampling Locations at Dispensers
-  - Area of Excavation

Title: Soil Sample Locations  
 Vulcan Materials  
 501 El Charro Road  
 Pleasanton, California

Figure Number: 3

Scale: 1" = 10'

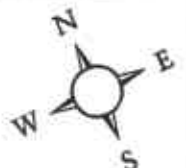
Project No.: 6546-004.00

Drawn By: EJJ

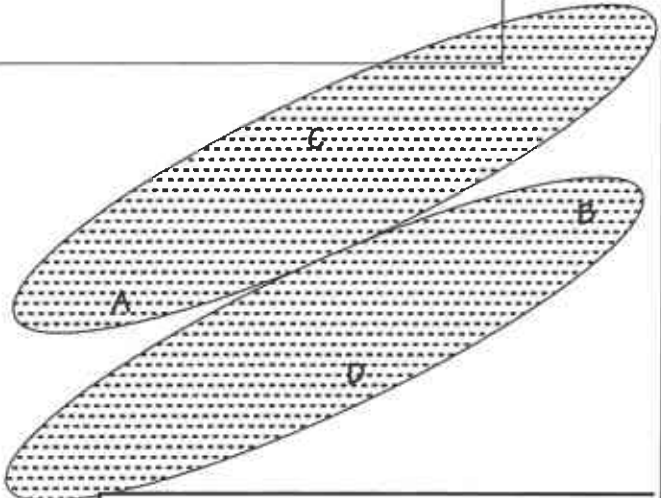
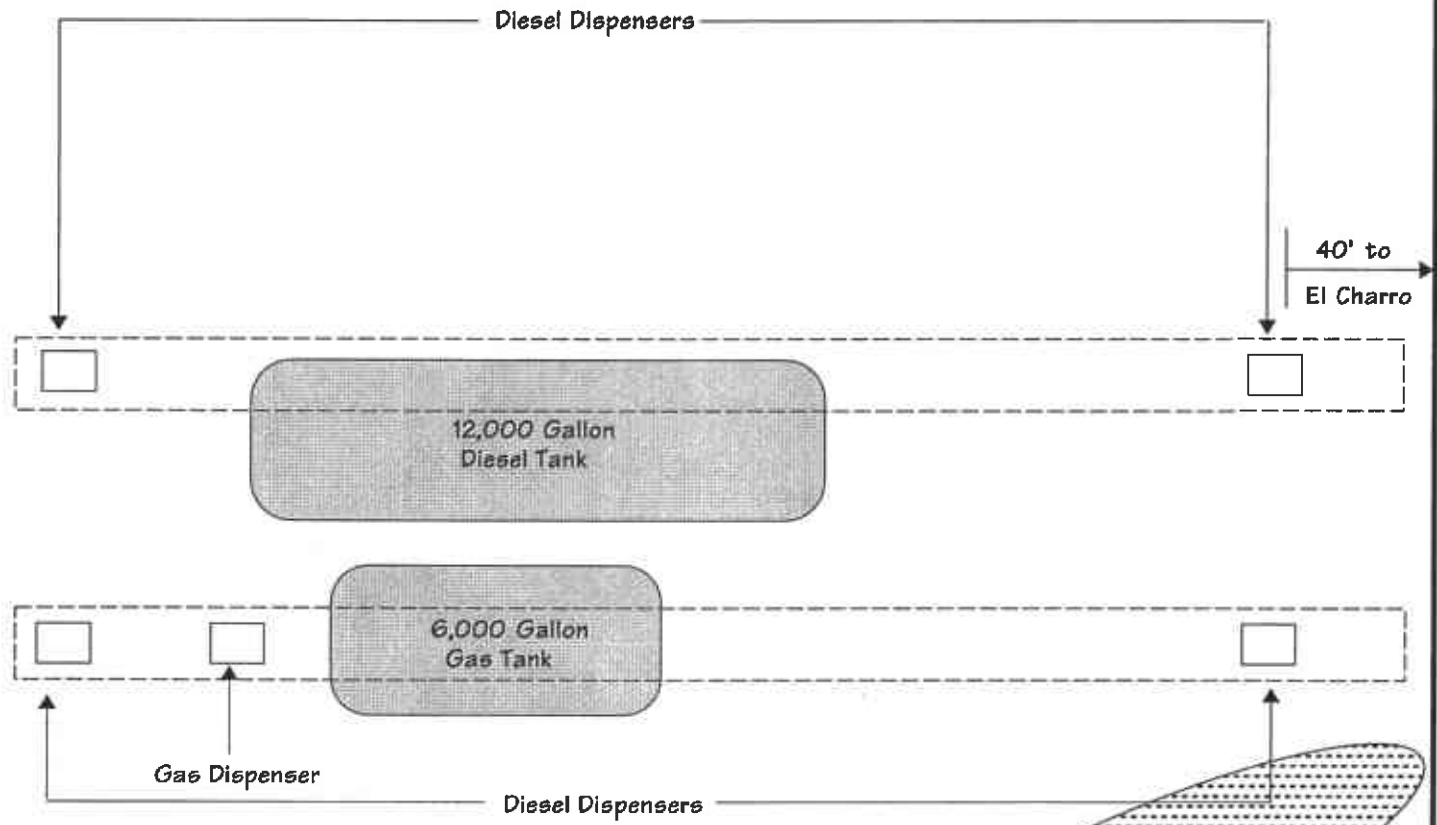
**A · C · C**  
 ENVIRONMENTAL  
 CONSULTANTS

Date: 12/17/02




7977 Capwell Drive, Suite 100  
 Oakland, California 94621  
 (510) 635-8400 Fax: (510) 635-8404







**Legend**

-  - Former Location of Dispenser Islands
-  - Location of Dispensers
-  - Location of Underground Storage Tanks

Title: **Soil Stockpile Sampling Locations  
Vulcan Materials  
501 El Charro Road  
Pleasanton, California**

Figure Number: 4      Scale: 1"= 10'

Project No.: 6546-004.00      Drawn By: E.JG

Date: 12/17/02

**A · C · C**  
ENVIRONMENTAL  
CONSULTANTS

7977 Capwell Drive, Suite 100  
Oakland, California 94621  
(510) 638-8400 Fax: (510) 638-8404



TABLES

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## Table 1- Analytical Data Spreadsheet

Site Address: 501 El Charro Road, Pleasanton, CA

Project Number: 6546-004.00

Site Name: Vulcan Materials

Sampling Date: 11/5/02

Reporting Date: 12/17/02

Sample ID	TPHd	TPHg	Benzene	Toluene	Ethyl- benzene	Total Xylene	TBA	MTBE	DIPE	ETBE	TAME	Total Lead
<b>TANK 1</b>												
T1V-14.0'	68	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.011	<0.005	<0.010	<0.0050	<0.0050	6.3
T1F-12.4'	1,800	31	<0.025	<0.025	0.66	2.1	<0.025	<0.025	<0.050	<0.025	<0.025	4.6
<b>TANK 2</b>												
T2V-11.5'	N/A	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	2.0
T2F-12.5'	N/A	2.7	<0.0050	<0.0050	<0.0050	0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	6.3
<b>DISPENSERS</b>												
D1-2.0	50	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	N/A
D2-2.0	2.8	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	N/A
D3-2.0	25	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	N/A
D4-2.0	29	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	N/A
D5-2.0	<1.0	<1.0	<0.0050	0.011	0.012	0.31	0.0083	<0.0050	<0.010	<0.0050	<0.0050	N/A
<b>SOIL STOCKPILE</b>												
SP-(A-D)	53	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.020	<0.0050	<0.010	<0.0050	<0.0050	2.7

**Notes:**

Samples results are in milligrams per kilogram (mg/kg), approximately equal to parts per million

< analytical results under laboratory reporting limit

N/A = samples were not analyzed for this constituent

TBA = tert-Butyl alcohol

MTBE = Methyl tert-butyl ether

DIPE = Di-isopropyl Ether

ETBE = Ethyl tert-butyl ether

TAME = tert- Amyl methyl ether

**ANALYTICAL RESULTS AND CHAIN OF CUSTODY RECORD**

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Submission#: 2002-11-0128

November 18, 2002

SEVERN

TRENT

LABORATORY

**ACC Environmental Consultants**

7977 Capwell Drive, Suite 100  
Oakland, CA 94621

Attn.: Ed Giacometti

Project#: 6546-004.00

Project: Vulcan Materials

STL San Francisco  
1220 Quarry Ln  
Pleasanton CA 94566

Tel.: (925) 484-1919  
Fax: (925) 484-1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP#:2496

Dear Mr. Giacometti,

Attached is our report for your samples received on 11/06/2002 16:35  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
12/21/2002 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,  
please call me at (925) 484-1919.

You can also contact me via email. My email address is: [vvancil@chromalab.com](mailto:vvancil@chromalab.com)

Sincerely,



Vincent Vancil  
Project Manager

Submission #: 2002-11-0128

Diesel

ACC Environmental Consultants

Attn.: Ed Giacometti

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6546-004.00

Vulcan Materials

Received: 11/06/2002 16:35

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1220 Quarry Lane  
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www.chromalab.com

CA DHS ELAP# 2496

### Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SP-A,B,C,D	11/05/2002 14:30	Soil	1
T1V-14.0	11/05/2002 16:45	Soil	2
T1F-12.4	11/05/2002 16:51	Soil	3
D1-2.0	11/06/2002 09:00	Soil	6
D2-2.0	11/06/2002 08:50	Soil	7
D3-2.0	11/06/2002 08:35	Soil	8
D4-4.0	11/06/2002 08:20	Soil	10

Submission #: 2002-11-0128

Diesel

ACC Environmental Consultants

Attn.: Ed Giacometti  
7977 Capwell Drive, Suite 100  
Oakland, CA 94621  
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6546-004.00  
Vulcan Materials

Received: 11/06/2002 16:35

SEVERN

TRENT

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STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Tel: (925) 484-1919  
Fax: (925) 484-1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP# 2496

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	SP-A,B,C,D	Lab ID:	2002-11-0128 - 1
Sampled:	11/05/2002 14:30	Extracted:	11/7/2002 12:28
Matrix:	Soil	QC Batch#:	2002/11/07-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	53	1.0	mg/Kg	1.00	11/08/2002 06:11	ndp
<b>Surrogates(s)</b> o-Terphenyl	91.2	60-130	%	1.00	11/08/2002 06:11	

Submission #: 2002-11-0128

Diesel

ACC Environmental Consultants

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Fax: (925) 484-1096  
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www.chromalab.com

CA DHS ELAP# 2496

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	T1V-14.0	Lab ID:	2002-11-0128 - 2
Sampled:	11/05/2002 16:45	Extracted:	11/7/2002 12:28
Matrix:	Soil	QC Batch#:	2002/11/07-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	68	1.0	mg/Kg	1.00	11/08/2002 06:51	ndp
<b>Surrogates(s)</b> o-Terphenyl	90.2	60-130	%	1.00	11/08/2002 06:51	



Submission #: 2002-11-0128

Diesel

ACC Environmental Consultants

Attn.: Ed Giacometti

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Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6546-004.00

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Received: 11/06/2002 16:35

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Pleasanton, CA 94566

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Fax: (925) 484-1096  
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www.chromalab.com

CA DHS ELAP# 2496

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	T1F-12.4	Lab ID:	2002-11-0128 - 3
Sampled:	11/05/2002 16:51	Extracted:	11/7/2002 12:28
Matrix:	Soil	QC Batch#:	2002/11/07-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	1800	50	mg/Kg	50.00	11/12/2002 23:17	ndp
<b>Surrogates(s)</b>						
o-Terphenyl	NA	60-130	%	50.00	11/12/2002 23:17	sd

Submission #: 2002-11-0128

Diesel

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CA DHS ELAP# 2496

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	D1-2.0	Lab ID:	2002-11-0128 - 6
Sampled:	11/06/2002 09:00	Extracted:	11/7/2002 12:28
Matrix:	Soil	QC Batch#:	2002/11/07-04 10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	50	1.0	mg/Kg	1.00	11/08/2002 06:11	ndp
<b>Surrogates(s)</b>						
o-Terphenyl	87.7	60-130	%	1.00	11/08/2002 06:11	

Submission #: 2002-11-0128

Diesel

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Vulcan Materials

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CA DHS ELAP# 2496

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	D2-2.0	Lab ID:	2002-11-0128 - 7
Sampled:	11/06/2002 08:50	Extracted:	11/7/2002 12:28
Matrix:	Soil	QC Batch#:	2002/11/07-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	2.8	1.0	mg/Kg	1.00	11/08/2002 06:51	ndp
<b>Surrogates(s)</b> o-Terphenyl	85.0	60-130	%	1.00	11/08/2002 06:51	

Submission #: 2002-11-0128

Diesel

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CA DHS ELAP# 2496

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	D3-2.0	Lab ID:	2002-11-0128 - 8
Sampled:	11/06/2002 08:35	Extracted:	11/7/2002 12:28
Matrix:	Soil	QC Batch#:	2002/11/07-04 10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	95	1.0	mg/Kg	1.00	11/08/2002 07:31	ndp
<b>Surrogates(s)</b>						
o-Terphenyl	96.8	60-130	%	1.00	11/08/2002 07:31	

Submission #: 2002-11-0128

Diesel

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www.chromalab.com

CA DHS ELAP# 2496

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	D4-4.0	Lab ID:	2002-11-0128 - 10
Sampled:	11/06/2002 08:20	Extracted:	11/7/2002 12:28
Matrix:	Soil	QC Batch#:	2002/11/07-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	29	1.0	mg/Kg	1.00	11/08/2002 08:51	ndp
<b>Surrogates(s)</b> o-Terphenyl	104.9	60-130	%	1.00	11/08/2002 08:51	

Submission #: 2002-11-0128

Diesel

ACC Environmental Consultants

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www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3550/8015M

Method Blank

MB: 2002/11/07-04.10-001

Soil

Test(s): 8015M

QC Batch # 2002/11/07-04.10

Date Extracted: 11/07/2002 12:28

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	11/08/2002 07:43	
<b>Surrogates(s)</b> o-Terphenyl	80.0	60-130	%	11/08/2002 07:43	

Submission #: 2002-11-0128

Diesel

ACC Environmental Consultants

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Project: 6546-004.00  
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Fax: (925) 484-1096  
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CA DHS ELAP# 2496

**Batch QC Report**

Prep(s): 3550/8015M

Test(s): 8015M

Laboratory Control Spike

Soil

QC Batch # 2002/11/07-04.10

LCS 2002/11/07-04.10-002

Extracted: 11/07/2002

Analyzed: 11/08/2002 06:21

LCSD 2002/11/07-04.10-003

Extracted: 11/07/2002

Analyzed: 11/08/2002 07:02

Compound	Conc. mg/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	38.6	39.0	41.7	92.6	93.5	1.0	60-130	25		
<i>Surrogates(s)</i> o-Terphenyl	18.1	17.9	20.0	90.7	89.6		60-130	0		

Submission #: 2002-11-0128

Diesel

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Project: 6546-004.00

Vulcan Materials

Received: 11/06/2002 16:35

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CA DHS ELAP# 2496

### Legend and Notes

#### Result Flag

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

sd

Surrogate recovery not reportable due to required dilution.



Submission #: 2002-11-0128

Total Lead

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CA DHS ELAP# 2496

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
SP-A,B,C,D	11/05/2002 14:30	Soil	1
T1V-14.0	11/05/2002 16:45	Soil	2
T1F-12.4	11/05/2002 16:51	Soil	3
T2V-11.5	11/05/2002 17:20	Soil	4
T2F-12.5	11/05/2002 17:05	Soil	5

Submission #: 2002-11-0128

Total Lead

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CA DHS ELAP# 2496

Prep(s):	3050B	Test(s):	6010B
Sample ID:	SP-A,B,C,D	Lab ID:	2002-11-0128 - 1
Sampled:	11/05/2002 14:30	Extracted:	11/7/2002 11:16
Matrix:	Soil	QC Batch#:	2002/11/07-08.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	2.7	1.0	mg/Kg	1.00	11/08/2002 14:34	

Submission #: 2002-11-0128

Total Lead

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Oakland, CA 94621

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CA DHS ELAP# 2496

Prep(s):	3050B	Test(s):	6010B
Sample ID:	T1V-14.0	Lab ID:	2002-11-0128 - 2
Sampled:	11/05/2002 16:45	Extracted:	11/7/2002 11:16
Matrix:	Soil	QC Batch#:	2002/11/07-08.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.3	1.0	mg/Kg	1.00	11/08/2002 14:38	

Submission #: 2002-11-0128

Total Lead

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CA DHS ELAP# 2496

Prep(s):	3050B	Test(s):	6010B
Sample ID:	T1F-12.4	Lab ID:	2002-11-0128 - 3
Sampled:	11/05/2002 16:51	Extracted:	11/7/2002 11:16
Matrix:	Soil	QC Batch#:	2002/11/07-08.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	4.6	1.0	mg/Kg	1.00	11/08/2002 14:42	

Submission #: 2002-11-0128

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CA DHS ELAP# 2496

Prep(s):	3050B	Test(s):	6010B
Sample ID:	T2V-11.5	Lab ID:	2002-11-0128 - 4
Sampled:	11/05/2002 17:20	Extracted:	11/7/2002 11:16
Matrix:	Soil	QC Batch#:	2002/11/07-08-15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	2.0	1.0	mg/Kg	1.00	11/08/2002 14:46	

Submission #: 2002-11-0128

Total Lead

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CA DHS ELAP# 2496

Prep(s):	3050B	Test(s):	6010B
Sample ID:	T2F-12.5	Lab ID:	2002-11-0128 - 6
Sampled:	11/05/2002 17:05	Extracted:	11/7/2002 11:16
Matrix:	Soil	QC Batch#:	2002/11/07-08 15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.3	1.0	mg/Kg	1.00	11/08/2002 14:49	

Submission #: 2002-11-0128

Total Lead

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3050B

Method Blank

MB: 2002/11/07-08.15-044

Soil

Test(s): 6010B

QC Batch # 2002/11/07-08.15

Date Extracted: 11/07/2002 11:16

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	11/08/2002 12:12	

Submission #: 2002-11-0128

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Laboratory Control Spike

Soil

QC Batch # 2002/11/07-08.15

LCS 2002/11/07-08.15-047

Extracted: 11/07/2002

Analyzed: 11/08/2002 13:30

LCSD 2002/11/07-08.15-048

Extracted: 11/07/2002

Analyzed: 11/08/2002 13:34

Compound	Conc. mg/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Lead	99.9	98.0	100.0	99.9	98.0	1.9	80-120	20		



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Gas/BTEX Fuel Oxygenates by 8260B

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7977 Capwell Drive, Suite 100

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CA DHS ELAP# 2496

### Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SP-A,B,C,D	11/05/2002 14:30	Soil	1
T1V-14.0	11/05/2002 16:45	Soil	2
T1F-12.4	11/05/2002 16:51	Soil	3
T2V-11.5	11/05/2002 17:20	Soil	4
T2F-12.5	11/05/2002 17:05	Soil	5
D1-2.0	11/06/2002 09:00	Soil	6
D2-2.0	11/06/2002 08:50	Soil	7
D3-2.0	11/06/2002 08:35	Soil	8
D4-4.0	11/06/2002 08:20	Soil	10
D5-2.0	11/06/2002 08:25	Soil	11

Submission #: 2002-11-0128

Gas/BTEXFuel Oxygenates by 8260B

ACC Environmental Consultants

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SP-A,B,C,D	Lab ID:	2002-11-0128 - 1
Sampled:	11/05/2002 14:30	Extracted:	11/14/2002 00:55
Matrix:	Soil	QC Batch#:	2002/11/13-02.27
Analysis Flag: o ( See Legend and Note Section )			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	11/14/2002 00:55	
Benzene	ND	5.0	ug/Kg	1.00	11/14/2002 00:55	
Toluene	ND	5.0	ug/Kg	1.00	11/14/2002 00:55	
Ethyl benzene	ND	5.0	ug/Kg	1.00	11/14/2002 00:55	
Total xylenes	ND	5.0	ug/Kg	1.00	11/14/2002 00:55	
tert-Butyl alcohol (TBA)	20	5.0	ug/Kg	1.00	11/14/2002 00:55	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	11/14/2002 00:55	
Di-isopropyl Ether (DIPE)	ND	10	ug/Kg	1.00	11/14/2002 00:55	
Ethyl tert-butyl ether (ETBE)	ND	5.0	ug/Kg	1.00	11/14/2002 00:55	
tert-Amyl methyl ether (TAME)	ND	5.0	ug/Kg	1.00	11/14/2002 00:55	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	98.1	70-121	%	1.00	11/14/2002 00:55	
Toluene-d8	93.4	81-117	%	1.00	11/14/2002 00:55	

Submission #: 2002-11-0128

Gas/BTEXFuel Oxygenates by 8260B

ACC Environmental Consultants

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	T1V-14.0	Lab ID:	2002-11-0128 - 2
Sampled:	11/05/2002 16:45	Extracted:	11/14/2002 01:17
Matrix:	Soil	QC Batch#:	2002/11/13-02.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	11/14/2002 01:17	
Benzene	ND	5.0	ug/Kg	1.00	11/14/2002 01:17	
Toluene	ND	5.0	ug/Kg	1.00	11/14/2002 01:17	
Ethyl benzene	ND	5.0	ug/Kg	1.00	11/14/2002 01:17	
Total xylenes	ND	5.0	ug/Kg	1.00	11/14/2002 01:17	
tert-Butyl alcohol (TBA)	11	5.0	ug/Kg	1.00	11/14/2002 01:17	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	11/14/2002 01:17	
Di-isopropyl Ether (DIPE)	ND	10	ug/Kg	1.00	11/14/2002 01:17	
Ethyl tert-butyl ether (ETBE)	ND	5.0	ug/Kg	1.00	11/14/2002 01:17	
tert-Amyl methyl ether (TAME)	ND	5.0	ug/Kg	1.00	11/14/2002 01:17	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	97.0	70-121	%	1.00	11/14/2002 01:17	
Toluene-d8	101.3	81-117	%	1.00	11/14/2002 01:17	

Submission #: 2002-11-0128

Gas/BTEX Fuel Oxygenates by 8260B

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	T1F-12.4	Lab ID:	2002-11-0128 - 3
Sampled:	11/05/2002 16:51	Extracted:	11/15/2002 14:35
Matrix:	Soil	QC Batch#:	2002/11/15-02.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	31000	5000	ug/Kg	5.00	11/15/2002 14:35	g
Benzene	ND	25	ug/Kg	5.00	11/15/2002 14:35	
Toluene	ND	25	ug/Kg	5.00	11/15/2002 14:35	
Ethyl benzene	660	25	ug/Kg	5.00	11/15/2002 14:35	
Total xylenes	2100	25	ug/Kg	5.00	11/15/2002 14:35	
tert-Butyl alcohol (TBA)	ND	25	ug/Kg	5.00	11/15/2002 14:35	
Methyl tert-butyl ether (MTBE)	ND	25	ug/Kg	5.00	11/15/2002 14:35	
Di-isopropyl Ether (DIPE)	ND	50	ug/Kg	5.00	11/15/2002 14:35	
Ethyl tert-butyl ether (ETBE)	ND	25	ug/Kg	5.00	11/15/2002 14:35	
tert-Amyl methyl ether (TAME)	ND	25	ug/Kg	5.00	11/15/2002 14:35	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	105.3	70-121	%	5.00	11/15/2002 14:35	
Toluene-d8	105.7	81-117	%	5.00	11/15/2002 14:35	

Submission #: 2002-11-0128

Gas/BTEXFuel Oxygenates by 8260B

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	T2V-11.5	Lab ID:	2002-11-0128 - 4
Sampled:	11/05/2002 17:20	Extracted:	11/14/2002 02:00
Matrix:	Soil	QC Batch#:	2002/11/13-02.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	11/14/2002 02:00	
Benzene	ND	5.0	ug/Kg	1.00	11/14/2002 02:00	
Toluene	ND	5.0	ug/Kg	1.00	11/14/2002 02:00	
Ethyl benzene	ND	5.0	ug/Kg	1.00	11/14/2002 02:00	
Total xylenes	ND	5.0	ug/Kg	1.00	11/14/2002 02:00	
tert-Butyl alcohol (TBA)	ND	5.0	ug/Kg	1.00	11/14/2002 02:00	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	11/14/2002 02:00	
Di-isopropyl Ether (DIPE)	ND	10	ug/Kg	1.00	11/14/2002 02:00	
Ethyl tert-butyl ether (ETBE)	ND	5.0	ug/Kg	1.00	11/14/2002 02:00	
tert-Amyl methyl ether (TAME)	ND	5.0	ug/Kg	1.00	11/14/2002 02:00	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	94.6	70-121	%	1.00	11/14/2002 02:00	
Toluene-d8	94.7	81-117	%	1.00	11/14/2002 02:00	

Submission #: 2002-11-0128

Gas/BTEXFuel Oxygenates by 8260B

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	T2F-12.5	Lab ID:	2002-11-0128 - 5
Sampled:	11/05/2002 17:05	Extracted:	11/14/2002 02:22
Matrix:	Soil	QC Batch#:	2002/11/13-02.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	2700	1000	ug/Kg	1.00	11/14/2002 02:22	g
Benzene	ND	5.0	ug/Kg	1.00	11/14/2002 02:22	
Toluene	ND	5.0	ug/Kg	1.00	11/14/2002 02:22	
Ethyl benzene	ND	5.0	ug/Kg	1.00	11/14/2002 02:22	
Total xylenes	10	5.0	ug/Kg	1.00	11/14/2002 02:22	
tert-Butyl alcohol (TBA)	ND	5.0	ug/Kg	1.00	11/14/2002 02:22	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	11/14/2002 02:22	
Di-isopropyl Ether (DIPE)	ND	10	ug/Kg	1.00	11/14/2002 02:22	
Ethyl tert-butyl ether (ETBE)	ND	5.0	ug/Kg	1.00	11/14/2002 02:22	
tert-Amyl methyl ether (TAME)	ND	5.0	ug/Kg	1.00	11/14/2002 02:22	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	98.5	70-121	%	1.00	11/14/2002 02:22	
Toluene-d8	99.1	81-117	%	1.00	11/14/2002 02:22	

Submission #: 2002-11-0128

Gas/BTEXFuel Oxygenates by 8260B

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	D1-2.0	Lab ID:	2002-11-0128 - 6
Sampled:	11/06/2002 09:00	Extracted:	11/14/2002 02:43
Matrix:	Soil	QC Batch#:	2002/11/13-02.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	11/14/2002 02:43	
Benzene	ND	5.0	ug/Kg	1.00	11/14/2002 02:43	
Toluene	ND	5.0	ug/Kg	1.00	11/14/2002 02:43	
Ethyl benzene	ND	5.0	ug/Kg	1.00	11/14/2002 02:43	
Total xylenes	ND	5.0	ug/Kg	1.00	11/14/2002 02:43	
tert-Butyl alcohol (TBA)	ND	5.0	ug/Kg	1.00	11/14/2002 02:43	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	11/14/2002 02:43	
Di-isopropyl Ether (DIPE)	ND	10	ug/Kg	1.00	11/14/2002 02:43	
Ethyl tert-butyl ether (ETBE)	ND	5.0	ug/Kg	1.00	11/14/2002 02:43	
tert-Amyl methyl ether (TAME)	ND	5.0	ug/Kg	1.00	11/14/2002 02:43	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	97.7	70-121	%	1.00	11/14/2002 02:43	
Toluene-d8	94.0	81-117	%	1.00	11/14/2002 02:43	

Submission #: 2002-11-0128

Gas/BTEXFuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Ed Giacometti  
7977 Capwell Drive, Suite 100  
Oakland, CA 94621  
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6546-004.00  
Vulcan Materials

Received: 11/06/2002 16:35

SEVERN

TRENT

LABORATORY

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Tel: (925) 484-1919  
Fax: (925) 484-1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	D2-2.0	Lab ID:	2002-11-0128 - 7
Sampled:	11/06/2002 08:50	Extracted:	11/14/2002 03:05
Matrix:	Soil	QC Batch#:	2002/11/13-02.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	11/14/2002 03:05	
Benzene	ND	5.0	ug/Kg	1.00	11/14/2002 03:05	
Toluene	ND	5.0	ug/Kg	1.00	11/14/2002 03:05	
Ethyl benzene	ND	5.0	ug/Kg	1.00	11/14/2002 03:05	
Total xylenes	ND	5.0	ug/Kg	1.00	11/14/2002 03:05	
tert-Butyl alcohol (TBA)	ND	5.0	ug/Kg	1.00	11/14/2002 03:05	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	11/14/2002 03:05	
Di-isopropyl Ether (DIPE)	ND	10	ug/Kg	1.00	11/14/2002 03:05	
Ethyl tert-butyl ether (ETBE)	ND	5.0	ug/Kg	1.00	11/14/2002 03:05	
tert-Amyl methyl ether (TAME)	ND	5.0	ug/Kg	1.00	11/14/2002 03:05	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	96.9	70-121	%	1.00	11/14/2002 03:05	
Toluene-d8	97.1	81-117	%	1.00	11/14/2002 03:05	



Submission #: 2002-11-0128

Gas/BTEXFuel Oxygenates by 8260B

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www.chromalab.com

CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	D3-2.0	Lab ID:	2002-11-0128 - 8
Sampled:	11/06/2002 08:35	Extracted:	11/14/2002 03:27
Matrix:	Soil	QC Batch#:	2002/11/13-02.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	11/14/2002 03:27	
Benzene	ND	5.0	ug/Kg	1.00	11/14/2002 03:27	
Toluene	ND	5.0	ug/Kg	1.00	11/14/2002 03:27	
Ethyl benzene	ND	5.0	ug/Kg	1.00	11/14/2002 03:27	
Total xylenes	ND	5.0	ug/Kg	1.00	11/14/2002 03:27	
tert-Butyl alcohol (TBA)	ND	5.0	ug/Kg	1.00	11/14/2002 03:27	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	11/14/2002 03:27	
Di-isopropyl Ether (DIPE)	ND	10	ug/Kg	1.00	11/14/2002 03:27	
Ethyl tert-butyl ether (ETBE)	ND	5.0	ug/Kg	1.00	11/14/2002 03:27	
tert-Amyl methyl ether (TAME)	ND	5.0	ug/Kg	1.00	11/14/2002 03:27	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	94.0	70-121	%	1.00	11/14/2002 03:27	
Toluene-d8	98.1	81-117	%	1.00	11/14/2002 03:27	

Submission #: 2002-11-0128

Gas/BTEXFuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Ed Giacometti

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Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6546-004.00

Vulcan Materials

Received: 11/06/2002 16:35

**SEVERN**  
**TRENT**  
**LABORATORY**

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Fax: (925) 484-1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	D4-4.0	Lab ID:	2002-11-0128 - 10
Sampled:	11/06/2002 08:20	Extracted:	11/14/2002 03:48
Matrix:	Soil	QC Batch#:	2002/11/13-02.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	11/14/2002 03:48	
Benzene	ND	5.0	ug/Kg	1.00	11/14/2002 03:48	
Toluene	ND	5.0	ug/Kg	1.00	11/14/2002 03:48	
Ethyl benzene	ND	5.0	ug/Kg	1.00	11/14/2002 03:48	
Total xylenes	ND	5.0	ug/Kg	1.00	11/14/2002 03:48	
tert-Butyl alcohol (TBA)	ND	5.0	ug/Kg	1.00	11/14/2002 03:48	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	11/14/2002 03:48	
Di-isopropyl Ether (DIPE)	ND	10	ug/Kg	1.00	11/14/2002 03:48	
Ethyl tert-butyl ether (ETBE)	ND	5.0	ug/Kg	1.00	11/14/2002 03:48	
tert-Amyl methyl ether (TAME)	ND	5.0	ug/Kg	1.00	11/14/2002 03:48	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	91.8	70-121	%	1.00	11/14/2002 03:48	
Toluene-d8	100.2	81-117	%	1.00	11/14/2002 03:48	

Submission #: 2002-11-0128

Gas/BTEXFuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Ed Giacometti  
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Oakland, CA 94621  
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6546-004.00  
Vulcan Materials

Received: 11/06/2002 16:35

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www.chromalab.com

CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	D5-2.0	Lab ID:	2002-11-0128 - 11
Sampled:	11/06/2002 08:25	Extracted:	11/14/2002 04:09
Matrix:	Soil	QC Batch#:	2002/11/13-02.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	11/14/2002 04:09	
Benzene	ND	5.0	ug/Kg	1.00	11/14/2002 04:09	
Toluene	11	5.0	ug/Kg	1.00	11/14/2002 04:09	
Ethyl benzene	42	5.0	ug/Kg	1.00	11/14/2002 04:09	
Total xylenes	310	5.0	ug/Kg	1.00	11/14/2002 04:09	
tert-Butyl alcohol (TBA)	8.3	5.0	ug/Kg	1.00	11/14/2002 04:09	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	11/14/2002 04:09	
Di-isopropyl Ether (DIPE)	ND	10	ug/Kg	1.00	11/14/2002 04:09	
Ethyl tert-butyl ether (ETBE)	ND	5.0	ug/Kg	1.00	11/14/2002 04:09	
tert-Amyl methyl ether (TAME)	ND	5.0	ug/Kg	1.00	11/14/2002 04:09	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	97.4	70-121	%	1.00	11/14/2002 04:09	
Toluene-d8	96.1	81-117	%	1.00	11/14/2002 04:09	

Submission #: 2002-11-0128

Gas/BTEXFuel Oxygenates by 8260B

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Project: 6546-004.00  
Vulcan Materials

Received: 11/06/2002 16:35

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www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2002/11/13-02.27-008

Soil

Test(s): 8260FAB

QC Batch # 2002/11/13-02.27

Date Extracted: 11/13/2002 12:06

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	11/13/2002 12:06	
Benzene	ND	5.0	ug/Kg	11/13/2002 12:06	
Toluene	ND	5.0	ug/Kg	11/13/2002 12:06	
Ethyl benzene	ND	5.0	ug/Kg	11/13/2002 12:06	
Total xylenes	ND	5.0	ug/Kg	11/13/2002 12:06	
tert-Butyl alcohol (TBA)	ND	5.0	ug/Kg	11/13/2002 12:06	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	11/13/2002 12:06	
Di-isopropyl Ether (DIPE)	ND	10.0	ug/Kg	11/13/2002 12:06	
Ethyl tert-butyl ether (ETBE)	ND	5.0	ug/Kg	11/13/2002 12:06	
tert-Amyl methyl ether (TAME)	ND	5.0	ug/Kg	11/13/2002 12:06	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	90.2	70-121	%	11/13/2002 12:06	
Toluene-d8	98.2	81-117	%	11/13/2002 12:06	

Submission #: 2002-11-0128

Gas/BTEXFuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Ed Giacometti

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Project: 6546-004.00

Vulcan Materials

Received: 11/06/2002 16:35

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www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2002/11/15-02.27-008

Soil

Test(s): 8260FAB

QC Batch # 2002/11/15-02.27

Date Extracted: 11/15/2002 08:39

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	11/15/2002 08:39	
Benzene	ND	5.0	ug/Kg	11/15/2002 08:39	
Toluene	ND	5.0	ug/Kg	11/15/2002 08:39	
Ethyl benzene	ND	5.0	ug/Kg	11/15/2002 08:39	
Total xylenes	ND	5.0	ug/Kg	11/15/2002 08:39	
tert-Butyl alcohol (TBA)	ND	5.0	ug/Kg	11/15/2002 08:39	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	11/15/2002 08:39	
Di-isopropyl Ether (DIPE)	ND	10.0	ug/Kg	11/15/2002 08:39	
Ethyl tert-butyl ether (ETBE)	ND	5.0	ug/Kg	11/15/2002 08:39	
tert-Amyl methyl ether (TAME)	ND	5.0	ug/Kg	11/15/2002 08:39	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	91.2	70-121	%	11/15/2002 08:39	
Toluene-d8	99.2	81-117	%	11/15/2002 08:39	

Submission #: 2002-11-0128

Gas/BTEXFuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Ed Giacometti  
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Oakland, CA 94621  
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6546-004.00  
Vulcan Materials

Received: 11/06/2002 16:35

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Pleasanton, CA 94566

Tel: (925) 484-1919  
Fax: (925) 484-1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Soil

QC Batch # 2002/11/13-02.27

LCS 2002/11/13-02.27-006

Extracted: 11/13/2002

Analyzed: 11/13/2002 11:23

LCSD 2002/11/13-02.27-007

Extracted: 11/13/2002

Analyzed: 11/13/2002 11:44

Compound	Conc. ug/Kg		Exp.Conc.	Recovery		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Benzene	45.9	43.3	50.0	91.8	86.6	5.8	69-129	20		
Toluene	50.1	45.8	50.0	100.2	91.6	9.0	70-130	20		
Methyl tert-butyl ether (MTBE)	55.0	48.2	50.0	110.0	96.4	13.2	65-165	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	453	441	500	90.6	88.2		70-121			
Toluene-d8	494	477	500	98.8	95.4		81-117			

Submission #: 2002-11-0128

Gas/BTEXFuel Oxygenates by 8260B

ACC Environmental Consultants

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Phone: (510) 638-8400 Fax: (510) 638-8404

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Vulcan Materials

Received: 11/06/2002 16:35

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www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Soil

QC Batch # 2002/11/15-02.27

LCS 2002/11/15-02.27-022

Extracted: 11/15/2002

Analyzed: 11/15/2002 14:06

LCSD 2002/11/15-02.27-007

Extracted: 11/15/2002

Analyzed: 11/15/2002 08:17

Compound	Conc. ug/Kg		Exp.Conc.	Recovery		RPD %	Ctrl.Limits %			Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD	
Benzene	41.4	41.2	50.0	82.8	82.4	0.5	69-129	20			
Toluene	47.2	44.6	50.0	94.4	89.2	5.7	70-130	20			
Methyl tert-butyl ether (MTBE)	39.1	44.3	50.0	78.2	88.6	12.5	65-165	20			
<b>Surrogates(s)</b>											
1,2-Dichloroethane-d4	454	464	500	90.8	92.8		70-121				
Toluene-d8	525	497	500	105.0	99.4		81-117				

Submission #: 2002-11-0128

Gas/BTEXFuel Oxygenates by 8260B

ACC Environmental Consultants

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Project: 6546-004.00

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www.chromalab.com

CA DHS ELAP# 2496

### Legend and Notes

#### Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.

#### Result Flag

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.



**2002-11-0128**

Report To Analysis Request

Attn: ED GIACOMETTI  
Company: ACC ENVIRONMENTAL CONSULTANTS  
Address: 7977 CAPWELL DRIVE, OAKLAND, CA  
P: (510) 638-8400 x 114 | E: egiacometti@accenv.com  
Bill To: ACC ENVIRONMENTAL | Sampled By: Ed Giacometti  
Attn: ED | Phone ext: 114

Sample ID	Date	Time	Mat rix	Pres erv.	TPH EPA - <input type="checkbox"/> 8015/8021 <input type="checkbox"/> 8260B <input type="checkbox"/> Gas w/ <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE	Purgeable Aromatics BTEX EPA - <input type="checkbox"/> 8021 <input type="checkbox"/> 8260B	TEPH EPA 8015M <input type="checkbox"/> Silica Gel <input type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other	Fuel Tests EPA 8260B: <input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> BTEX <input type="checkbox"/> Five Oxygenates <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) <input type="checkbox"/> EPA 8260B <input type="checkbox"/> 624	Semivolatiles GC/MS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 625	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608 PCBs <input type="checkbox"/> EPA 9082 <input type="checkbox"/> 608	PNA's by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: <input checked="" type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other:	W.E.T (STLC) <input type="checkbox"/> TCLP	Hexavalent Chromium pH (24h hold time for H <sub>2</sub> O)	Spec Cond. <input type="checkbox"/> Alkalinity TSS <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> PO <sub>4</sub>	Number of Containers	
SP-A	11/5/02	14:30	S	Gold			<del>X</del>	<del>X</del>														1
SP-B	11/5/02	14:35	S	Gold			<del>X</del>	<del>X</del>														1
SP-C	11/6/02	14:40	S	Gold			<del>X</del>	<del>X</del>														1
SP-D	11/5/02	14:42	S	Gold			<del>X</del>	<del>X</del>														1
TIV-14.0	11/5/02	16:45	S	Gold			X	X								X						1
TIF-12.4	11/5/02	16:50	S	Gold			X	X								X						1
TIV-11.5	11/5/02	17:20	S	Gold				X								X						1
TIF-12.5	11/5/02	17:05	S	Gold				X								X						1
D1-2.0	11/6/02	9:00	S	Gold			X	X														1
D2-2.0	11/6/02	8:55	S	Gold			X	X														1

Composite

**Project Info.**  
Project Name: Vulcan Materials  
Project#: 6346-004.00  
PO#: \_\_\_\_\_  
Credit Card#: \_\_\_\_\_

**Sample Receipt**  
# of Containers: \_\_\_\_\_  
Head Space: \_\_\_\_\_  
Temp: 3.2°C  
Conforms to record: \_\_\_\_\_  
Other: \_\_\_\_\_

T  
A  
T  
Std 5 Day 72h 48h 24h

1) Relinquished by:  
Ed Giacometti 1530  
Signature \_\_\_\_\_ Time \_\_\_\_\_  
ED GIACOMETTI 11/6/02  
Printed Name \_\_\_\_\_ Date \_\_\_\_\_  
ACC ENVIRONMENTAL CONSULTANTS  
Company

2) Relinquished by:  
Eric Tom 1635  
Signature \_\_\_\_\_ Time \_\_\_\_\_  
ERIC TOM 11/06/02  
Printed Name \_\_\_\_\_ Date \_\_\_\_\_  
STL  
Company

3) Relinquished by:  
\_\_\_\_\_  
Signature \_\_\_\_\_ Time \_\_\_\_\_  
\_\_\_\_\_  
Printed Name \_\_\_\_\_ Date \_\_\_\_\_  
\_\_\_\_\_  
Company

Report:  Routine  Level 3  Level 4  EDD  State Tank Fund EDF  
Special Instructions / Comments: \_\_\_\_\_  Global ID \_\_\_\_\_

1) Received by:  
Eric Tom 1530  
Signature \_\_\_\_\_ Time \_\_\_\_\_  
ERIC TOM 11/6/02  
Printed Name \_\_\_\_\_ Date \_\_\_\_\_  
STL  
Company

2) Received by:  
\_\_\_\_\_  
Signature \_\_\_\_\_ Time \_\_\_\_\_  
\_\_\_\_\_  
Printed Name \_\_\_\_\_ Date \_\_\_\_\_  
\_\_\_\_\_  
Company

3) Received by:  
Denise Harrington  
Signature \_\_\_\_\_ Time \_\_\_\_\_  
D. Harrington 1635  
Printed Name \_\_\_\_\_ Date \_\_\_\_\_  
STL-SF 11/6/02  
Company

**2002-11-0128**

**Report To** Analysis Request

Attn: ED GIACOMETTI  
 Company: ACC ENVIRONMENTAL CONSULTANTS  
 Address: 7977 CAPWELL DRIVE, OAKLAND, CA  
 P: (510) 638-8400 x 114 E: egiacometti@accenv.com  
 Bill To: ACC ENVIRONMENTAL Sampled By: Edward Giacometti  
 Attn: ED Phone ext: 114

Sample ID	Date	Time	Mat rix	Pres erv.	TPH EPA - <input type="checkbox"/> 8015/8021 <input type="checkbox"/> 8260B <input type="checkbox"/> Gas w/ <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE	Purgeable Aromatics BTEX EPA - <input type="checkbox"/> 8021 <input type="checkbox"/> 8260B	TEPH EPA 8015M <input type="checkbox"/> Silica Gel <input type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other	Fuel Tests EPA 8260B: <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> Five Oxymethals <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) <input type="checkbox"/> EPA 8260B <input type="checkbox"/> 824	Semivolatiles GC/MS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 625	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608 <input type="checkbox"/> PCBs <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608	PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM17 Metals (EPA 60107/4707471)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other:	W.E.T (STLC) <input type="checkbox"/> TCLP	Hexavalent Chromium pH (24h hold time for H <sub>2</sub> O)	Spec Cond. <input type="checkbox"/> Alkalinity TSS <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> PO <sub>4</sub>	Number of Containers	
D3-2.0	11/6/02	8:35	S	Col			X	X														1
D3-3.5	11/6/02	8:40	S	Col																		1
D4-4.0	11/6/02	8:20	S	Col			X	X														1
D5-2.0	11/6/02	8:25	S	Col				X														1
D5-4.0	11/6/02	8:30	S	Col																		1

<b>Project Info.</b>		<b>Sample Receipt</b>		<b>1) Relinquished by:</b>		<b>2) Relinquished by:</b>		<b>3) Relinquished by:</b>			
Project Name: <u>Vulcan Materials</u>	# of Containers:	Signature: <u>[Signature]</u> Time: <u>1530</u>		Signature: <u>[Signature]</u> Time: <u>1635</u>		Signature: _____ Time: _____		Signature: _____ Time: _____			
Project#: <u>6546-004.00</u>	Head Space:	Printed Name: <u>ED GIACOMETTI</u> Date: <u>11/6/02</u>		Printed Name: <u>ERIC TOM</u> Date: <u>11/06/02</u>		Printed Name: _____ Date: _____		Printed Name: _____ Date: _____			
PO#:	Temp:	ACC ENVIRONMENTAL CONSULTANTS Company		Company		Company		Company			
Credit Card#:	Conforms to record:	Other:		<b>1) Received by:</b>		<b>2) Received by:</b>		<b>3) Received by:</b>			
T A T	<u>Std 5 Day</u>	72h	48h	24h	Signature: <u>[Signature]</u> Time: <u>1530</u>		Signature: _____ Time: _____		Signature: <u>Debbie Harrington</u> Time: <u>1235</u>		
Report: <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input type="checkbox"/> State Tank Fund EDF <input type="checkbox"/> Global ID _____				Printed Name: <u>ERIC TOM</u> Date: <u>11/06/02</u>		Printed Name: _____ Date: _____		Printed Name: <u>D. Harrington</u> Date: <u>11/06/02</u>		Printed Name: _____ Date: _____	
Special Instructions / Comments:				Company: <u>STL</u>		Company: _____		Company: <u>STL-SF</u>		Company: _____	