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9:54 am, Nov 03, 2008

Alameda County Environmental Health



May 24, 2005

TRC Project No. 42-0144-04

Mr. Don Hwang Alameda County Health Services 1131 Harbor Bay Parkway, Suite 250 Oakland, California 94502

SITE:

76 SERVICE STATION NO. 5043

449 HEGENBERGER ROAD OAKLAND, CALIFORNIA ALAMEDA COUNTY

SUBJECT:

DUAL-PHASE EXTRACTION REPORT

Dear Mr. Hwang:

On behalf of ConocoPhillips Company (ConocoPhillips), TRC submits this report of dual-phase extraction (DPE) activities for ConocoPhillips Station No. 5043, located at 449 Hegenberger Road in Oakland, California. This action was performed in accordance with the work plan submitted by TRC on October 11, 2004. The work was conducted on April 8-9, 2005, and consisted of 24 continuous hours of DPE.

1.0 FIELD ACTIVITIES

1.1 Scope of Work

A 24-hour DPE event was performed on April 8-9, 2005. The DPE event was implemented to attempt to remove residual vapor-phase, adsorbed-phase and dissolved-phase hydrocarbons remaining in site soils.

1.2 Pre-Field Activities

A notification letter dated March 30, 2005 was sent to the Bay Area Air Quality Management District (BAAQMD). A site-specific health and safety plan was prepared for TRC personnel.

1.3 Procedures

TRC used a mobile treatment system (MTS) to extract soil vapors from monitoring well MW-6. Liquid- and vapor-phase hydrocarbons were removed from the extraction well and separated at the MTS. The liquids were automatically transferred into an aboveground storage

Dual-Phase Extraction Report ConocoPhillips Station No. 5043 May 24, 2005

tank and the hydrocarbon vapors were abated using a catalytic/thermal oxidizer. The exclusion zone was constructed with consideration of the station refueling activities. As a result, refueling activities continued without interruption during the DPE event.

The extraction well was fitted with a custom wellhead seal and connected with flexible hose to convey soil vapors to the MTS unit. The MTS consists of a truck-mounted high vacuum (28 inches of Hg) liquid ring pump and thermal oxidizer, moisture knockout tank, air particulate filters, and all necessary piping and gauges. Abated soil vapors were discharged to the atmosphere.

A TRC operator was onsite throughout the course of the event to record system airflow rates [cubic feet per minute (cfm)], applied vacuum in the conveyance piping [inches of mercury (inches Hg)], and influent soil vapor screening data [parts per million by volume (ppmv)]. A HoribaTM organic vapor analyzer (OVA) was used to screen influent soil vapor concentrations.

Three influent soil vapor samples were collected in Tedlar™ bags and submitted to a certified analytical laboratory under chain-of-custody documentation. Samples were analyzed for the presence of total petroleum hydrocarbons calculated as gasoline (TPH-g), benzene, toluene, ethyl benzene, and total xylenes (BTEX compounds), methyl tertiary butyl ether (MTBE), and ethanol using Environmental Protection Agency (EPA) Method 8260B.

1.4 Results

Refer to Table 1 for tabulated MTS data, and Appendix A for field data sheets. The average flow rate was 6.6 cfm and average applied vacuum was 23 inches Hg. OVA screening for influent concentrations of total petroleum hydrocarbons was performed during the event. Total petroleum hydrocarbon concentrations were measured with the OVA at the beginning and conclusion of the event at 2,640 ppmv and 210 ppmv respectively. Total estimated hydrocarbon mass removal and hydrocarbon concentration are plotted versus time in Figure 3.

Laboratory analytical results are presented in Table 2, Summary Sheet. All certified analytical reports and chain-of-custody documentation are presented in Appendix B. Vapor-phase TPH-g concentrations ranged from 3,000 ppmv to 240 ppmv. Benzene concentrations ranged from 11 to 2.3 ppmv. MTBE concentrations were non-detect. Laboratory analytical TPH-g and benzene concentrations are plotted versus time in Figure 4. Vapor-phase TPH-g and benzene concentrations decreased during the event.

Influent soil vapor concentration data (measured every 30 minutes throughout the course of the event) was used to calculate mass removed during the DPE event. Table 1 presents the results. Approximately 1.77 pounds of TPH-g were removed from the extraction wells in 24 hours of operation. A total of 2,000 gallons of groundwater were removed from the subsurface.



1.5 Waste Disposal

Groundwater generated during the course of DPE activities was transported by Onyx Environmental to the ConocoPhillips refinery in Rodeo, California for treatment and disposal. A copy of the waste manifest is included in Appendix C.

2.0 EVALUATION OF FINDINGS

The 24-hour DPE event was moderately successful at removing vapor-phase petroleum hydrocarbons from the subsurface. Influent vapor concentrations dropped substantially in the first five hours of the event and slowly decreased during the subsequent 20 hours. However, overall influent concentrations were not high enough to allow for efficient hydrocarbon removal given the low flow rates obtainable given the soil conditions.

The influent concentrations and mass removal rates suggest that DPE is not a viable long-term remedial alternative for removing source hydrocarbons from this site.

Dissolved-phase hydrocarbon concentrations in the extraction well (MW-6) were lower after the MTS event. The decrease could be a result of the groundwater extraction activity. Analytical data collected during the next round of monitoring and sampling should indicate whether or not this event had a long-term decreasing effect on contaminant concentrations in groundwater at MW-6.

3.0 RECOMMENDATIONS

Given the lack of productivity of DPE activities during this test, TRC recommends that DPE not be considered a viable potential remediation technique at the site.

TRC recommends investigation of alternative remedial methods to obtain site closure.

4.0 LIST OF ATTACHMENTS

Figures:

- 1) Vicinity Map
- 2) Site Plan
- 3) System Concentration and Hydrocarbon Recovery Versus Time
- 4) Vapor-Phase TPH and Benzene Concentrations Versus Time

Tables:

- 1) Mobile Treatment System Vacuum Extraction Data
- 2) Vacuum Extraction Event Report Summary Sheet

Appendices:

- A) MTS Field Sheets
- B) Laboratory Analytical Reports
- C) Waste Manifest



3

Dual-Phase Extraction Report ConocoPhillips Station No. 5043 May 24, 2005

Should you have any questions regarding this report, please contact us at (925) 688-1200.

Sincerely,

TRC

Mark Trevor

Project Geologist

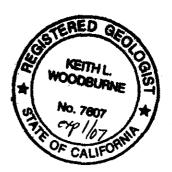
Keith Woodburne, R.G. Senior Project Geologist

Roger Batra

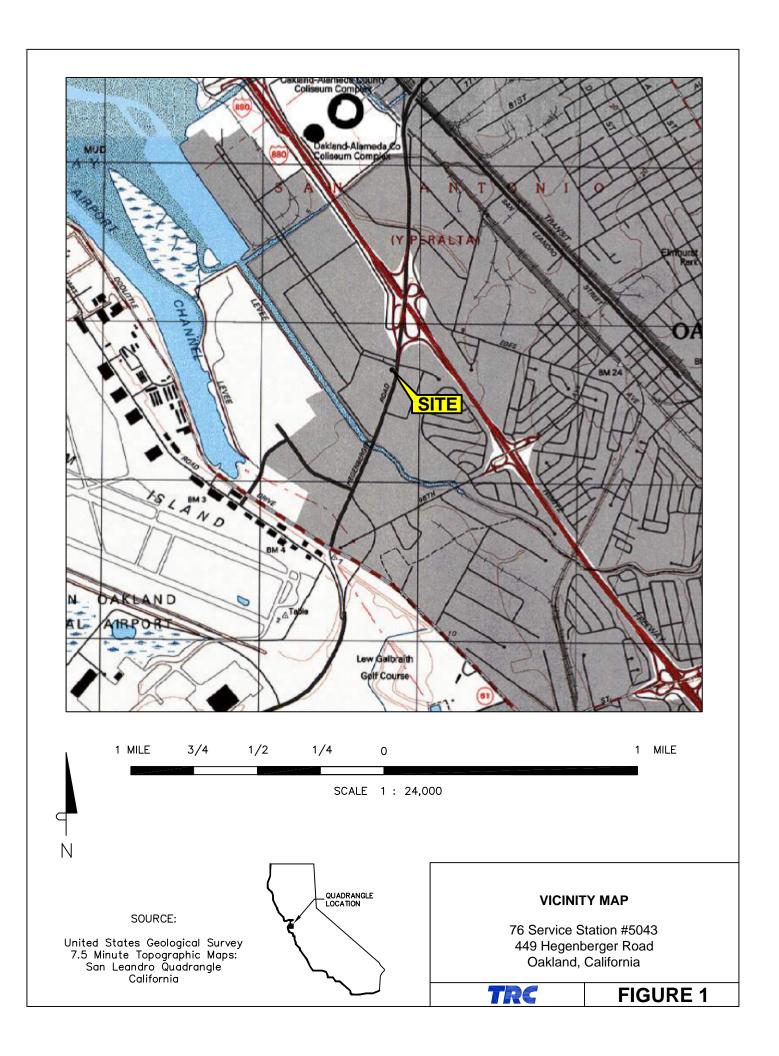
Senior Project Manager

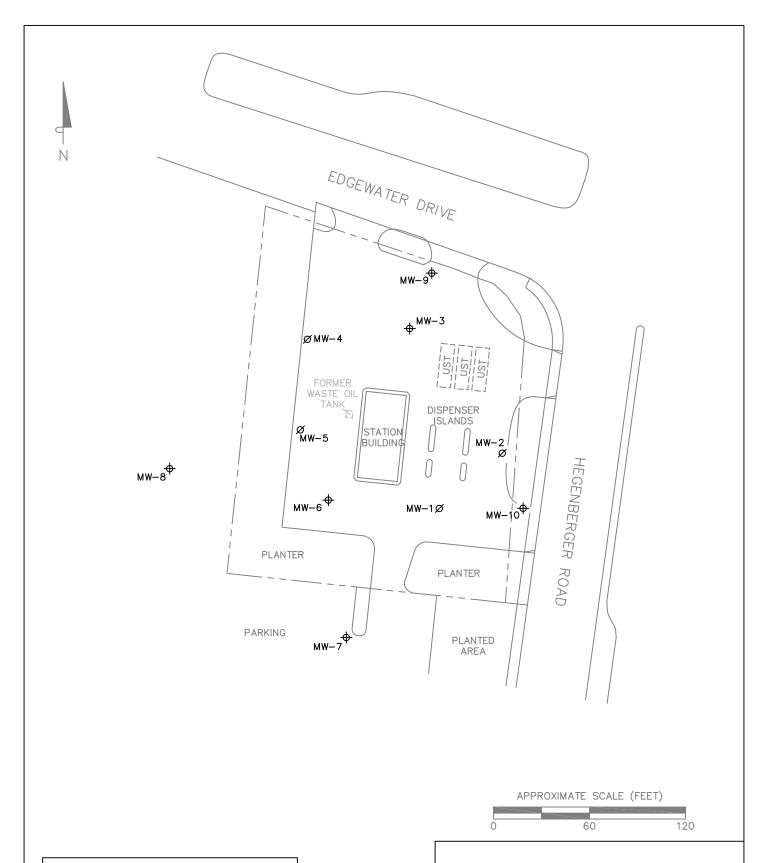
Roger Batre

cc: Ms. Shelby Lathrop, ConocoPhillips (electronic upload)



FIGURES







— — — Approximate property line

MW−10 ♦ Groundwater monitoring well

MW-5 Ø Abandoned well

SOURCE: Site plan by Gettler-Ryan, May 2001.

SITE PLAN

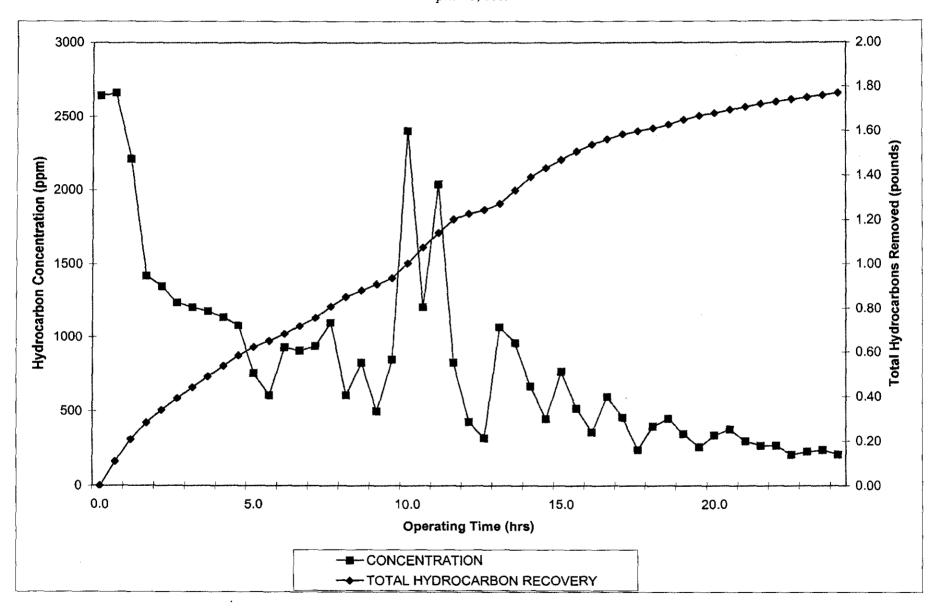
76 Service Station #5043 449 Hegenberger Road Oakland, California



FIGURE 2

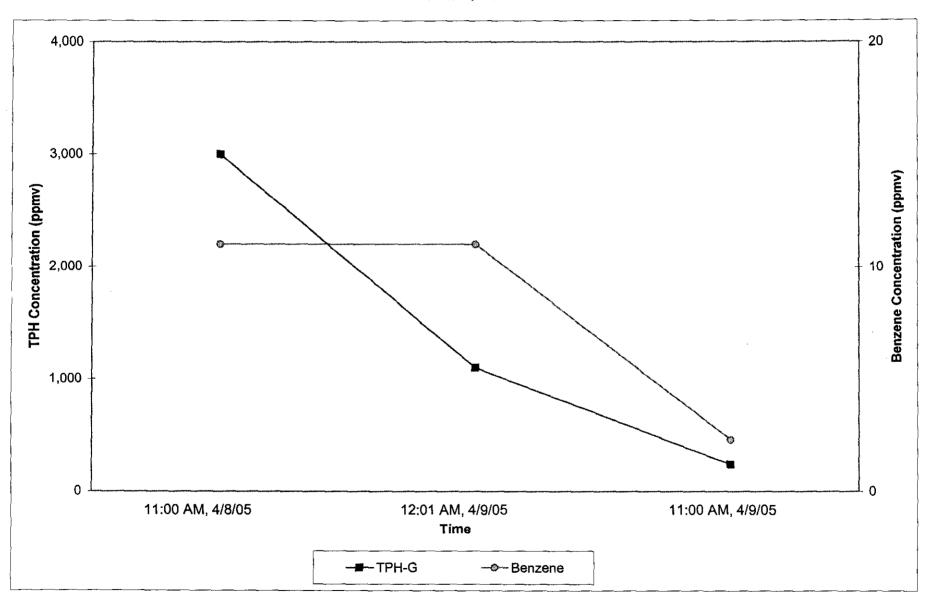
SYSTEM CONCENTRATION AND HYDROCARBON RECOVERY VERSUS TIME

ConocoPhillips 5043 449 Hegenberger Road, Oakland CA April 8-9, 2005



Vapor - Phase TPH and Benzene Concentrations Versus Time

ConocoPhillips 5043 449 Hegenberger Road, Oakland, CA Oakland, 2004



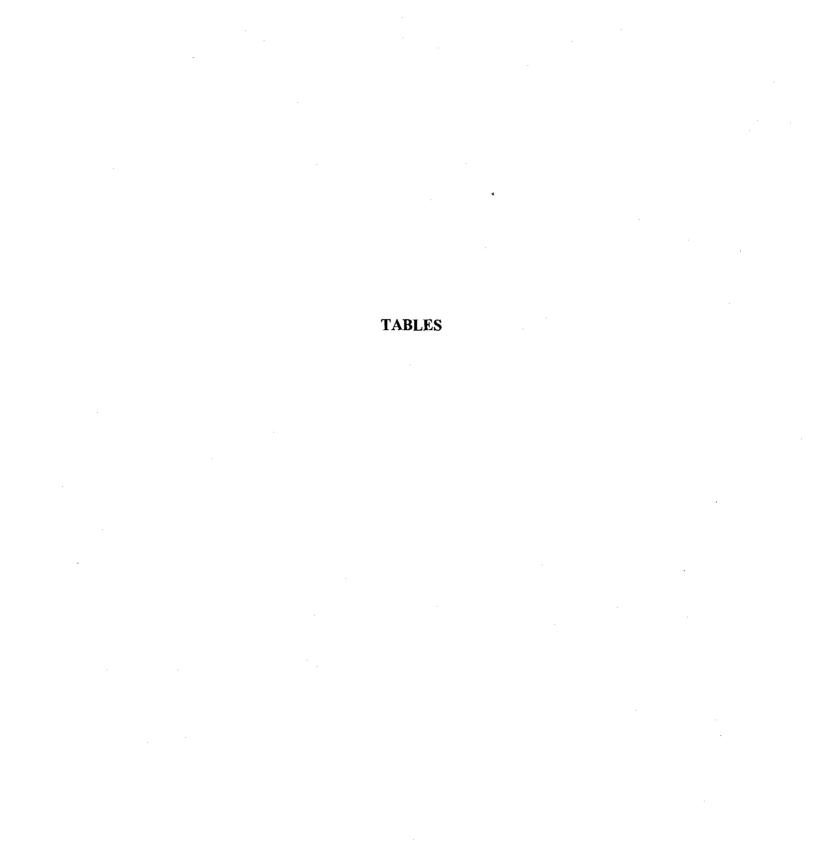


Table 1

MOBILE TREATMENT SYSTEM VACUUM EXTRACTION DATA

ConocoPhillips 5043 449 Hegenberger Road, Oakland CA April 8-9, 2005

						TOTAL SYSTEM MEASURE	MENTS		
				INLET BLOWER	SYSTEM		CUMULATIVE HYDROCA	RBON RECOVERY	
DATE	TIME	ELAPSED TIME (MINUTES)	TOTAL TIME (HOURS)	VACUUM (IN OF Hg)	INLET FLOW*	CONCENTRATION** (PPMV)	POUNDS	GALLONS*	EXTRACTION WELL OPEN
08-Apr-05	11:00	0.0	0.0	24.0	6	2640	0.00	0,00	MW-6
08-Apr-05	11:30	30.00	0,50	24.0	6	2660	0.11	0.02	MW-6
08-Apr-05	12:00	30.00	1.00	23.0	6	2210	0.21	0.03	MW-6
08-Apr-05	12:30	30.00	1.50	20.5	6	1420	0.28	0.05	MW-6
08-Apr-05	13:00	30.00	2.00	20.5	6	1350	0.34	0.05	MW-6
08-Apr-05	13:30	30.00	2,50	20.5	6	1240	0.39	0,06	MW-6
08-Apr-05	14:00	30.00	3.00	21.0	6	1210	0.44	0,07	MW-6
08-Apr-05	14:30	30.00	3,50	22.0	6	1180	0,49	0.08	MW-6
08-Apr-05	15:00	30.00	4.00	22.0	6	1140	0.54	0.09	MW-6
08-Apr-05	15:30	30.00	4.50	21.5	6	1080	0.58	0.09	MW-6
08-Apr-05	16:00	30.00	5.00	21,0	6	760	0.62	0.10	MW-6
08-Apr-05	16:30	30,00	5.50	21.0	6	610	0.65	0.10	MW-6
08-Apr-05	17:00	30.00	6.00	23.0	8	930	0.68	0,11	MW-6
08-Apr-05	17:30	30.00	6.50	21.5	6	910	0.72	0.11	MW-6
08-Apr-05	18:00	30.00	7.00	23.0	6	940	0.76	0.12	MW-6
08-Apr-05	18:30	30.00	7.50	22.5	9	1100	0.81	0.13	MW-6
08-Apr-05	19:00	30.00	8.00	21.5	6	610	0.85	0.14	MW-6
08-Apr-05	19:30	30.00	8.50	23.5	1 - 6	830	0.88	0.14	MW-6
08-Apr-05	20:00	30.00	9.00	22.5	1 - 6 -	500	0.80	0.15	MW-6
08-Apr-05	20:30	30.00	9.50	24.5	6	850	0.94	0.15	MW-6
08-Apr-05	21:00	30.00	10,00	24.8	 		1.00	0.16	MW-6
08-Apr-05	21:30	30.00	10.50	25.3	6	2400	1.00	0.17	MW-6
08-Apr-05	22:00	30.00	11.00	25.2	6	1210 2040	1,14	0.17	MW-6
08-Apr-05	22:30	30.00	11.50	25.2	6		1.14	0.18	MW-6
08-Apr-05	23:00	30.00	12.00	/ 23.3		830 430	1,23	0.19	MW-6
08-Apr-05	23:30	30.00	12.50	23.3	6	320	1.24	0.20	MW-6
09-Apr-05	0:00	30.00							MW-6
			13.00	24.1	6	1070	1.27	0.20	
09-Apr-05	0:30	30.00	13.50	24.9	11	960	1.33	0.21	MW-6
09-Apr-05 09-Apr-05	1:00	30.00	14.00	23.3	11	670	1.39	0.22	MW-6
	2:00	30.00	14.50	22.0	11	450	1.43	0.23	MW-6
09-Apr-05		30.00	15.00	25.4	6	770	1.47	0.23	MW-6
09-Apr-05	2:30	30.00	15.50	23.8	11	520	1.51	0.24	MW-6
09-Apr-05	3:00	30,00	16.00	22.2	9	360	1.54	0.25	MW-6
09-Apr-05	3:30	30,00	16.50	25.0	6	600	1.56	0.25	MW-6
09-Apr-05	4:00	30.00	17.00	24.0	6	460	1.58	0.25	MW-6
09-Apr-05	4:30	30.00	17.50	21,5	6	240	1.60	0.26	MW-6
09-Apr-05	5:00	30,00	18.00	24.5	6	400	1.61	0.26	MW-6
09-Apr-05	5:30	30.00	18.50	24.3	6	450	1.63	0.26	MW-6
09-Apr-05	6:00	30.00	19.00	22.7	11	350	1.65	0.26	MW-6
09-Apr-05	6;30	30.00	19.50	21.2	6	260	1.67	0.27	MW-6
09-Apr-05	7:00	30.00	20.00	24.7	6	340	1.68	0.27	MW-6
09-Apr-05	7:30	30.00	20.50	24,5	6	380	1.70	0.27	MW-6
09-Apr-05	8:00	30.00	21.00	23.0	66	300	1.71	0,27	MW-6
09-Apr-05	8:30	30,00	21.50	22.0	6	270	1.72	0,28	MW-6
09-Apr-05	9:00	30.00	22.00	22,5	6	270	1.73	0,28	MW-6
09-Apr-05	9:30	30.00	22,50	21.5	6	210	1.74	0.28	MW-6

Table 1

MOBILE TREATMENT SYSTEM VACUUM EXTRACTION DATA

ConocoPhillips 5043 449 Hegenberger Road, Oakland CA April 8-9, 2005

	*					TOTAL SYSTEM MEASUREM	IENTS		
				INLET BLOWER	SYSTEM		CUMULATIVE HYDROCA	RBON RECOVERY	
DATE	TIME	ELAPSED TIME (MINUTES)	TOTAL TIME (HOURS)	VACUUM (IN OF Hg)	INLET FLOW* (CFM)	CONCENTRATION** (PPMV)	POUNDS	GALLONS"	EXTRACTION WELL OPEN
09-Apr-05	10:00	30.00	23.00	24.0	6	230	1.75	0.28	MW-6
09-Apr-05	10:30	30.00	23.50	23.0	6	240	1.76	0.28	MW-6
09-Apr-05	11:00	30.00	24.00	22,5	6	210	1.77	0.28	MW-6
				TOTAL	HYDROCARBONS F	RECOVERED	1.77	0.28	
				TOTAL V	VATER RECOVERED	(GALLONS)	2,000		

Notes

TPH = total petroleum hydrocarbons

CFM = cubic feet per minute

IN of Hg = inches of mercury

ppmv = parts per million by volume

-- = Unit down for extraction well transfer

* = Based on hydrocarbon density of 6.26 pounds per gallon.

** = Based on field Horiba OVA readings.

TRC

Vacuum Extraction Event Report

Summary Sheet

76 Station 5043
449 Hegenberger Road
Oakland, California

BAAQMD#

262 NA

NPDES#

4/8-9/05 24.00

Date(s) of Event(s):

VACUUM EXTRACTION PERFORMANCE

Total Operating Hours: Technology Used:

High-vacuum liquid-ring pump with Thermal Oxidizer

Total Sytem Max/Min Influent Vapor Concentration (ppmv):

2,660 / 210

Total System Max/Min Flow Rate (cfm):

11/6

Total Max/Min Vacuum (in Hg):

25.4 / 20.5

Total Recovery Volume by Vapor (pounds/gallons):

1.77 / 0.28

LABORATORY ANALYSIS OF VAPOR SAMPLES

			Sample Result (ppmv)									
Well ID	Date	Time Sampled	TPH-G *	Benzene*	Toluene*	Ethyl Benzene*	Total Xylenes*	мтве*	Comments			
MW-6	08-Apr-05	11:00 AM	3,000	11	16	13	40	ND≤0.7	Influent			
MW-6	09-Apr-05	12:01 AM	1100	11	25	7.1	27	ND<0.7	Influent			
MW-6	_09-Арт-05	11:00 AM	240	2.3	6.8	3.1	13	ND<0.14	Influent			

LABORATORY ANALYSIS OF GROUNDWATER SAMPLES

		,			Sample Result (ug/L)							
Well		Time			!							
ID	Date	Sampled	TPH-G *	Benzene*	Toluene*	Ethyl Benzene*	Total Xylenes*	MTBE*	Comments			
MW-6	10-Jan-05	NA.	71,000	1,600	3,700	2,100	9,900	ND<50				
MW-6	09-May-05	3:09 PM	34,000	480	1,100	1,400	4,800	ND<50				

ADDITIONAL INFORMATION:

* = Analyzed by EPA method 8260B

Total system concentration and flow measurements are taken on the pressure side of the blower after dilution.

PPMV = parts per million by volume = micrograms per liter ug/L

= cubic feet per minute cfim

= inches of mercury

in Hg TPH-g = total petroleum hydrocarbons as gasoline

= Methyl tert-Butyl Ether MtBE

= not detectable N.D.

NΑ = not tested

Prepared by:	<u> </u>	Mark Trevor, Project Geologist	TRC Project No:	42-0144-04
Approved by:		Keith Woodburne, R.G., Senior Project Geologist		

APPENDIX A

MTS FIELD DATA conoco princips 42-0144-02 70-STA-5045 Customer-Focused Solutions UTOS 4/8/05 Laptop Unit #: **EXTRACTION WELL #1 EXTRACTION WELL#2 CUMULATIVE WELLS** MW-Co TOTALIZER START (gallons) WELL ID: 2,40 TOTALIZER END (gallons): DTW (ft): 1600 DEPTH to FP (ft): TOTAL DEPTH(ft.): CASING DIAM, (in): VACUUM SIDE DATA Manifold H20 Well Flow System . Extraction Stinger Texp Flow Rate Inf. Conc. Vacuum . Flow Rate | Inf. Conc. Temo DP Flow Rate HC Conc. Vacuum Depth Flow Rate | HC Conc. weils (ppmv) (in of Ha) (24 hr) (scfm) (ppmy) (in. of Hg) (scfm) (dep.F) (in. H2O) : (scim) (0) (in. H2O) (ppmv) 11700 24.0 107 2640 1443 100 101 et 130 2660 1445 129 101 6 11.0 23.0 130 2210 1446 1200 67 130 er 1420 1448 1230 20.5 140 135 07 LOZ 1350 1446 1300 20,5 140 ,01 68 1330 20.5 145 1240 1448 101 1400 69 148 1210 1449 101 22.0 120 1430 125 1180 1444 ,01 1500 66 22.0 130 125 .01 1140 1441 ,01 6530 125 1080 1449 2115 175 1600 63 742 760 1445 01 1630 11.0 ,01 138 610 1446 1700 138 930 1453 62 170 Ol 1730 125 .ol 910 1442 130 1800 940 1444 ,0(61 130 125 1100 1443 (830 60 **LO2** 1900 1447 58 2115 610 U2 .Ol 1448 1930 59 830 110 100 101 6 96 500 7451 56 .01 6 2000 92 2030 01 FILLED SEAL H20 NOTES: TOUR FLOW (1815) (1845 STOPPED UNITING AT WELL HORIB PROPPED 700 PPM (1915 BLOW DOWN STAL HOO TANK

Rev10/03

TRE MTS FIELD DATA Sheet: CONOCO PHILLIPS 42 - 0144-0 Customer-Focused Solutions Site: 76 STA 5043 UA03 Task No.: 4/8/05 Laptop Unit #: **EXTRACTION WELL #2 CUMULATIVE WELLS EXTRACTION WELL #1** WELLID MW-6 TOTALIZER START (gallons) TOTALIZER END (gallons): DTW (ft): STACK HC CONCENTRATION (COMV) DEPTH to FP (ft): TOTAL DEPTH(ft.) Manif CASING DIAM. (in): 112 Total Manifold HZC Wall Well Flow Flow Rate Inf. Conc. Vacuum DP Flow Rate HC Conc. Vacuum (in, H2O) (sc/m) (ppmv) (in, of Hg) Flow Rate | HC Conc. Depth Flow Rate | Inf. Conc. Temo wells Depth (scim) (ppmv) (in. H2O) (scfm) (ppmv) (in. of Ha) (in, of Hg) 21:00 56 24601453 21.30 57 1210 1447 22:00 57 2010 1443 2230 56 8701445 101 23 00 55 430 1441 .06 2330 550 0.7 + vertus that well hear Valv. 2401 55 1070 1444 Teolon tola (mover 00:30 56 960 1:00 56 670 1443 1:30 56 450 1450 Reoper At 1:50 m Venting 2100 56 770 2130 56 Still Wester at well Hear 520 1443 .03 3:00 56 11 (3:05 Cooled Down 3el Her my 4) ,02 9 360 /843 3130 56 600 1447 4.00 460 1445 4130 21.5 1350 106 240 1448 Closes Vertay 401) 5760 cornings immediately digo with various every time Closed vent at well head to take Tedling minous mw-6 at (2:01 Am, (00:01) Than the neight provide every 12 has I had to unloss Seed ware (Hot) Amb Apos Confinesh 1420 Actual Well H20 gals while venting = 6" on 18 gal he.

eng/mts/template/fieldsheet.xts

Client Comoco	Phillips
Sile: 70 STATE	0N # 5043

TRC

MTS FIELD DATA

Cusiomer-Focused Solutions
MTS Unit #: 0934

Laptop	Unit	#:	•	3	

Sheet: 3 /
Project No.: 42 0144 02
Task No.: VAO 3

	CUMULATIVE WELLS												EXTRA	CTION W	ELL#1		EXTRACTION WELL # 2					
TOTALIZER STA	RY (gallons):			Time;								WELL ID:	Mu	_ب_ ل					e i e Pipperi i i		
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APPENDIX B



TRC/Alton Geoscience-Concord

April 22, 2005

1590 Solano Way, Suite A Concord, CA 94520

Attn.:

Roger Batra

Project#: 41050001FA20

Project:

Conoco Phillips #5043

Attached is our report for your samples received on 04/08/2005 17:10 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 05/23/2005 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: dsharma@stl-inc.com Sincerely,

Dimple Sharma **Project Manager**



Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Roger Batra

1590 Solano Way, Suite A Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #5043

Received: 04/08/2005 17:10

Samples Reported

Sample Name	Date Sampled	Matrix	Lab#
INFLUENT VAPOR MW-6	04/08/2005 11:00	Air	1



Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Roger Batra

1590 Solano Way, Suite A Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #5043

Received: 04/08/2005 17:10

Prep(s):

5030B

Test(s):

8260B

Sample ID: INFLUENT VAPOR MW-6

Lab ID:

2005-04-0239 - 1

Sampled:

04/08/2005 11:00

Extracted:

4/9/2005 12:49

Matrix:

Air

QC Batch#: 2005/04/09-1B.64

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	3000	1.6	ppmv	5.00	04/09/2005 12:49	
Benzene	11	1.6	ppmv	5.00	04/09/2005 12:49	
Toluene	16	1.3	ppmv	5.00	04/09/2005 12:49	i
Ethylbenzene	13	1.2	ppmv	5.00	04/09/2005 12:49	
Total xylenes	40	1.2	ppmv	5.00	04/09/2005 12:49	i
Methyl tert-butyl ether (MTBE)	ND	0.70	ppmv	5.00	04/09/2005 12:49	
Ethanol	ND	130	ppmv	5.00	04/09/2005 12:49	
Surrogate(s)		İ				
1,2-Dichloroethane-d4	112.3	72-128	%	5.00	04/09/2005 12:49	i
Toluene-d8	97.4	80-113	%	5.00	04/09/2005 12:49	,



Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Roger Batra

1590 Solano Way, Suite A Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #5043

Received: 04/08/2005 17:10

Batch QC Report

Prep(s): 5030B Method Blank

Water

Test(s): 8260B QC Batch # 2005/04/09-1B.64

Date Extracted: 04/09/2005 08:18

100			j.,			100	100					
1.4	D		γ_{ℓ}	۱n	_	A 4.	m	O .	4 D	- 6	A F	18
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1.												

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	04/09/2005 08:18	
Benzene	ND	0.5	ug/L	04/09/2005 08:18	
Toluene	ND	0.5	ug/L	04/09/2005 08:18	
Ethylbenzene	ND	0.5	ug/L	04/09/2005 08:18	
Total xylenes	ND	1.0	ug/L	04/09/2005 08:18	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/09/2005 08:18	
Ethanol	ND	50	ug/L	04/09/2005 08:18	
Surrogates(s)	1	Į	ļ	1 .	
1,2-Dichloroethane-d4	112.6	73-130	%	04/09/2005 08:18	
Toluene-d8	99.4	81-114	%	04/09/2005 08:18	



Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Roger Batra

1590 Solano Way, Suite A Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #5043

Received: 04/08/2005 17:10

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/04/09-1B.64

LCS

2005/04/09-1B.64-056

Extracted: 04/09/2005

Analyzed: 04/09/2005 07:56

LCSD

Compound	Conc.	ug/L	Exp.Conc.	Reco	very %	RPD	Ctrl.Lin	iits %	Fla	ags
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE) Benzene Toluene	26.0 26.0 24.2		25 25 25	104.0 104.0 96.8			65-165 69-129 70-130			
Surrogates(s) 1,2-Dichloroethane-d4 Toluene-d8	528 503		500 500	105.6 100.6			73-130 81-114			



Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Roger Batra

1590 Solano Way, Suite A Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #5043

Received: 04/08/2005 17:10

	Batch QC Report		
Prep(s): 5030B			Test(s): 8260B
Matrix Spike (MS / MSD)	Water	QC Batc	h # 2005/04/09-1B.64
MS/MSD		Lab ID:	2005-04-0097 - 003
MS: 2005/04/09-1B.64-013	Extracted: 04/09/2005	Analyzed:	04/09/2005 09:13
출근길에 가다 환경 하고를 받았다.		Dilution:	1.00
MSD: 2005/04/09-1B.64-034	Extracted: 04/09/2005	Analyzed:	04/09/2005 09:34
		Dilution:	1.00

Compound	Conc.	ug	/L	Spk.Level	R	ecovery	%	Limit	s %	FI	ags
<u> </u>	мѕ	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	27.7	28.0	ND	25	110.8	112.0	1.1	65-165	20		
Benzene	28.2	26.8	ND	25	112.8	107.2	5.1	69-129	20		
Toluene	26.0	25.1	ND	25	104.0	100.4	3.5	70-130	20		}
Surrogate(s)	}	Į		}]		1	1		İ
1,2-Dichloroethane-d4	562	578		500	112.4	115.6	l .	73-130			1
Toluene-d8	507	505		500	101.4	101.0		81-114	<u> </u>		<u> </u>



Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Roger Batra

1590 Solano Way, Suite A Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #5043

Received: 04/08/2005 17:10

Legend and Notes

Analysis Flag

L2

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

Chain of Custody Record



2005-04-0239

Severn Trent Laboratories, Inc.

114016

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TRC/Alton Geoscience-Concord

April 21, 2005

1590 Solano Way, Suite A Concord, CA 94520

Attn.:

Roger Batra

Project:

Conoco Phillips #5043

Site:

449 Hegenberger Rd., Oakland

Attached is our report for your samples received on 04/11/2005 10:25

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 05/26/2005 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: dsharma@stl-inc.com

Sincerely,

Dimple Sharma Project Manager



Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Roger Batra

1590 Solano Way, Suite A Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: Conoco Phillips #5043

Received: 04/11/2005 10:25

Site: 449 Hegenberger Rd., Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab#
INFLUENT VAPOR MW-6	04/09/2005 00:01	Air	1
INFLUENT VAPOR MW-6	04/09/2005 11:00	Air	2
EFFLUENT VAPOR MW-6	04/09/2005 11:00	Air	3



Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Roger Batra

1590 Solano Way, Suite A Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: Conoco Phillips #5043

Received: 04/11/2005 10:25

Site: 449 Hegenberger Rd., Oakland

Prep(s): 5030B

Test(s):

8260B

Sample ID: INFLUENT VAPOR MW-6 04/09/2005 00:01

Lab ID:

2005-04-0261 - 1

Extracted:

4/11/2005 20:57

4/13/2005 10:11

Matrix: Air

Sampled:

QC Batch#: 2005/04/11-2B.66

2005/04/13-1B.64

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	1100	70	ppmv	5.00	04/11/2005 20:57	
Benzene	11	1.6	ppmv	5.00	04/11/2005 20:57	
Toluene	25	1.3	ppmv	5.00	04/11/2005 20:57	
Ethylbenzene	7.1	1.2	ppmv	5.00	04/11/2005 20:57	,
Total xylenes	27	1.2	ppmv	5.00	04/11/2005 20:57	
Methyl tert-butyl ether (MTBE)	ND	0.70	ppmv	5.00	04/11/2005 20:57	
Ethanol	ND	130	ppmv	5.00	04/13/2005 10:11	H2
Surrogate(s)	- }			i		
1,2-Dichloroethane-d4	103.8	72-128	%	5.00	04/13/2005 10:11	H2
1,2-Dichloroethane-d4	94.9	72-128	%	5.00	04/11/2005 20:57	
Toluene-d8	91.9	80-113	%	5.00	04/13/2005 10:11	H2
Toluene-d8	94.0	80-113	%	5.00	04/11/2005 20:57	· ·



Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Roger Batra

1590 Solano Way, Suite A Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: Conoco Phillips #5043

Received: 04/11/2005 10:25

Site: 449 Hegenberger Rd., Oakland

Prep(s):

5030B

Test(s):

8260B

Sample ID: INFLUENT VAPOR MW-6

04/09/2005 11:00

Lab ID:

2005-04-0261 - 2

Extracted:

4/11/2005 21:23

4/13/2005 10:32

Matrix:

Sampled:

QC Batch#: 2005/04/11-2B.66

2005/04/13-1B.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	240	14	ppmv	1.00	04/11/2005 21:23	
Benzene	2.3	0.31	ppmv	1.00	04/11/2005 21:23	
Toluene	6.8	0.26	ppmv	1.00	04/11/2005 21:23	,
Ethylbenzene	3.1	0.23	ppmv	1.00	04/11/2005 21:23	
Total xylenes	13	0.23	ppmv	1.00	04/11/2005 21:23	
Methyl tert-butyl ether (MTBE)	ND	0.14	ppmv	1.00	04/11/2005 21:23	
Ethanol	ND	25	ppmv	1.00	04/13/2005 10:32	H2
Surrogate(s)	[1	{			
1,2-Dichloroethane-d4	106.3	72-128	%	1.00	04/13/2005 10:32	H2
1,2-Dichloroethane-d4	93.9	72-128	%	1.00	04/11/2005 21:23	
Toluene-d8	97.3	80-113	%	1.00	04/13/2005 10:32	H2
Toluene-d8	99.0	80-113	%	1.00	04/11/2005 21:23	

•



Gas/BTEX Fuel Oxygenates by 8260B

TRC/Aiton Geoscience-Concord

Attn.: Roger Batra

1590 Solano Way, Suite A Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: Conoco Phillips #5043

Received: 04/11/2005 10:25

Site: 449 Hegenberger Rd., Oakland

Prep(s):

5030B

Test(s):

8260B

Sample ID: EFFLUENT VAPOR MW-6

04/09/2005 11:00

Lab ID:

2005-04-0261 - 3

Extracted:

4/11/2005 21:48

4/13/2005 10:54

Matrix:

Sampled:

Air

QC Batch#: 2005/04/11-2B.66

2005/04/13-1B.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	14	ppmv	1.00	04/11/2005 21:48	
Benzene	ND	0.31	ppmv	1.00	04/11/2005 21:48	
Toluene	ND	0.26	ppmv	1.00	04/11/2005 21:48	i
Ethylbenzene	ND	0.23	ppmv	1.00	04/11/2005 21:48	
Total xylenes	ND	0.23	ppmv	1.00	04/11/2005 21:48	
Methyl tert-butyl ether (MTBE)	ND	0.14	ppmv	1.00	04/11/2005 21:48	1
Ethanol	ND	25	ppmv	1.00	04/13/2005 10:54	H2
Surrogate(s)	1	-	1			
1,2-Dichloroethane-d4	107.5	72-128	%	1.00	04/13/2005 10:54	H2
1,2-Dichloroethane-d4	94.0	72-128	%	1.00	04/11/2005 21:48	
Toluene-d8	96.9	80-113	%	1.00	04/13/2005 10:54	H2
Toluene-d8	100.6	80-113	%	1.00	04/11/2005 21:48	



Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Roger Batra

1590 Solano Way, Suite A Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: Conoco Phillips #5043

Received: 04/11/2005 10:25

Site: 449 Hegenberger Rd., Oakland

		Batch QC Report		
Prep(s): 5030B				Test(s): 8260B
Method Blank		Water	QC Batch #	2005/04/11-2B.66
MB: 2005/04/11	-2B.66-046		Date Extracted:	04/11/2005 18:46

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	04/11/2005 18:46	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/11/2005 18:46	ł
Benzene	ND	0.5	ug/L	04/11/2005 18:46	1
Toluene	ND	0.5	ug/L	04/11/2005 18:46	
Ethylbenzene	ND	0.5	ug/L	04/11/2005 18:46	
Total xylenes	ND	1.0	ug/L	04/11/2005 18:46	
Ethanol	ND	50	ug/L	04/11/2005 18:46	
Surrogates(s)	ļ	Ì			
1,2-Dichloroethane-d4	96.6	73-130	%	04/11/2005 18:46	
Toluene-d8	98.0	81-114	%	04/11/2005 18:46	



Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Roger Batra

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project; Conoco Phillips #5043

Received: 04/11/2005 10:25

Site: 449 Hegenberger Rd., Oakland

Batch QC Report	
Prep(s): 5030B	Test(s): 8260B
Method Blank Water	QC Batch # 2005/04/13-1B.64
MB: 2005/04/13-1B.64-039	Date Extracted: 04/13/2005 08:39

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	04/13/2005 08:39	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/13/2005 08:39	
Benzene	ND	0.5	ug/L	04/13/2005 08:39	
Toluene	ND	0.5	ug/L	04/13/2005 08:39	
Ethylbenzene	ND	0.5	ug/L	04/13/2005 08:39	
Total xylenes	ND	1.0	ug/L	04/13/2005 08:39	ļ
Ethanol	ND	50	ug/L	04/13/2005 08:39	
Surrogates(s)		1	•		
1,2-Dichloroethane-d4	107.8	73-130	%	04/13/2005 08:39	
Toluene-d8	93.2	81-114	%	04/13/2005 08:39	



Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Roger Batra

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Phone: (925) 688-1200 Fax: (925) 688-0388

Project: Conoco Phillips #5043

Received: 04/11/2005 10:25

Site: 449 Hegenberger Rd., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/04/11-2B.66

LCS

2005/04/11-2B.66-021

Extracted: 04/11/2005

Analyzed: 04/11/2005 18:21

LCSD

		<u> </u>								
Compound	Conc.	ug/L	Exp.Conc.	Recovery %		RPD	D Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE) Benzene Toluene	21.2		25 25	99.2 84.8			65-165 69-129	20 20		
Surrogates(s) 1,2-Dichloroethane-d4	24.3 462		25 500	97.2 92.4			70-130 73-130	20		
Toluene-d8	4 6 2 490		500	92.4 98.0	\		81-114		i	



Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Roger Batra

1590 Solano Way, Suite A Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: Conoco Phillips #5043

Received: 04/11/2005 10:25

Site: 449 Hegenberger Rd., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/04/13-1B.64

LCS 2005/04/13-1B.64-017

Extracted: 04/13/2005

Analyzed: 04/13/2005 08:17

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%_	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE) Benzene Toluene	25.3 28.6 29.2		25 25 25	101.2 114.4 116.8			65-165 69-129 70-130	20 20 20		
Surrogates(s) 1,2-Dichloroethane-d4 Toluene-d8	499 475		500 500	99.8 95.0			73-130 81-114			



Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Roger Batra

1590 Solano Way, Suite A Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: Conoco Phillips #5043

Received: 04/11/2005 10:25

Site: 449 Hegenberger Rd., Oakland

	Batch QC Report		
Prep(s): 5030B			Test(s): 8260B
Matrix Spike (MS / MSD)	Water	QC Batc	h # 2005/04/11-2B.66
MS/MSD		Lab ID:	2005-04-0156 - 001
MS: 2005/04/11-2B.66-047	Extracted: 04/11/2005	Analyzed:	04/11/2005 19:42
MSD: 2005/04/11-2B.66-048	Extracted: 04/11/2005	Dilution; Analyzed:	1.00 04/11/2005 20:07
		Dilution:	1.00

Compound	Conc. ug/L		Spk.Level Recovery %			Limits %		Flags			
	MS	MSD	Sample	ug/L	MS	MSD_	RPD	Rec.	RPD	MS	MSD
Benzene	24.5	23.6	ND	25	98.0	94.4	3.7	69-129	20		
Toluene	28.0	26.8	ND	25	112.0	107.2	4.4	70-130	20	l I	
Methyl tert-butyl ether	63.4	61.9	31.2	25	128.8	122.8	4.8	65-165	20		
Surrogate(s)])	<u> </u>	1		į		1	1		
1,2-Dichloroethane-d4	496	492		500	99.2	98.4	i i	73-130	1		
Toluene-d8	541	528		500	108.2	105.6		81-114			



Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Roger Batra

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: Conoco Phillips #5043

Received: 04/11/2005 10:25

Site: 449 Hegenberger Rd., Oakland

	Batch QC Report		
Prep(s): 5030B			Test(s): 8260B
Matrix Spike (MS / MSD)	Water	QC Batch	# 2005/04/13-1B.64
MS/MSD		Lab ID:	2005-04-0097 - 001
MS: 2005/04/13-1B.64-037	Extracted: 04/13/2005	Analyzed:	04/13/2005 11:37
		Dilution:	1.00
MSD: 2005/04/13-1B.64-059	Extracted: 04/13/2005	Analyzed:	04/13/2005 11:59
		Dilution:	1.00

Compound	Conc.	ug	μ/L	Spk.Level	R	есочегу	%	Limit	s %	FI	ags
	мѕ	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether Benzene Toluene	67.9 23.5 23.5	69.4 23.1 23.4	39.1 ND ND	25 25 25	115.2 94.0 94.0	121.2 92.4 93.6	5.1 1.7 0.4	65-165 69-129 70-130	20 20 20		
Surrogate(s) 1,2-Dichloroethane-d4 Toluene-d8	518 458	537 465		500 500	103.5 91.5	107.4 93.0		73-130 81-114			



Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Roger Batra

1590 Solano Way, Suite A Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: Conoco Phillips #5043

Received: 04/11/2005 10:25

Site: 449 Hegenberger Rd., Oakland

Legend and Notes

Analysis Flag

L2

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

Result Flag

H2

Analyzed out of holding time.

Chain of Custody Record

DISTRIBUTION: WHITE Returned to Client with Report, CANARY - Stays with this Sample PINK. Find Copy



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TRC/Alton Geoscience-Concord

May 13, 2005

1590 Solano Way, Suite A Concord, CA 94520

Attn.:

Roger Batra

Project#: 42014408

Project:

Conoco Phillips # 5043

Site:

449 Hegenberger Rd, Oakland

Attached is our report for your samples received on 05/10/2005 17:10 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 06/24/2005 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: dsharma@stl-inc.com

alma

Sincerely,

Dimple Sharma **Project Manager**



Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Roger Batra

1590 Solano Way, Suite A Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42014408

Conoco Phillips # 5043

Received: 05/10/2005 17:10

Site: 449 Hegenberger Rd, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab#
MW-6	05/09/2005 15:09	Water	1



Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Roger Batra

1590 Solano Way, Suite A Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42014408

Conoco Phillips # 5043

Received: 05/10/2005 17:10

Site: 449 Hegenberger Rd, Oakland

Prep(s):

Sample ID: MW-6

5030B

Test(s):

8260B

Lab ID:

2005-05-0293 - 1

Sampled:

05/09/2005 15:09

Extracted:

5/13/2005 13:44

Matrix:

Water

QC Batch#: 2005/05/13-1A.62

Analysis Flag: L2, pH: <2 (See Legend and Note Section)

Compound	Conc.	RL.	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	34000	5000	ug/L	100.00	05/13/2005 13:44	
Benzene	480	50	ug/L	100.00	05/13/2005 13:44	
Toluene	1100	50	ug/L	100.00	05/13/2005 13:44	
Ethylbenzene	1400	50	ug/L	100.00	05/13/2005 13:44	
Total xylenes	4800	100	ug/L	100.00	05/13/2005 13:44	
Methyl tert-butyl ether (MTBE)	ND	50	ug/L	100.00	05/13/2005 13:44	
Ethanol	ND	5000	ug/L	100.00	05/13/2005 13:44	
Surrogate(s)						
1,2-Dichloroethane-d4	87.3	73-130	%	100.00	05/13/2005 13:44	
Toluene-d8	93.2	81-114	%	100.00	05/13/2005 13:44	



Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Roger Batra

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42014408

Conoco Phillips # 5043

Received: 05/10/2005 17:10

Site: 449 Hegenberger Rd, Oakland

Prep(s): 5030B Method Blank MB: 2005/05/13-1A.62-003	Bate	ch QC Repoi		Test(s QC Batch # 2005/05/1 ate Extracted: 05/13/20	Diameter seal
Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	05/13/2005 10:03	Flag
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	05/13/2005 10:03	1
Benzene	ND	0.5	ua/I	05/13/2005 10:03	



Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Roger Batra

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42014408

Conoco Phillips # 5043

Received: 05/10/2005 17:10

Site: 449 Hegenberger Rd, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/05/13-1A.62

LCS 2005/05/13-1A.62-037

Extracted: 05/13/2005

Analyzed: 05/13/2005 09:37

LCSD

Compound	Conc.	ug/L	Exp.Conc.	Reco	very %	RPD	Ctrl.Lin	nits %	Fla	ags
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	24.2	1	25	96.8			65-165	20		
Benzene	24.0		25	96.0	1	1.	69-129	20		
Toluene	23.2	[25	92.8	1	1 1	70-130	20		i
Surrogates(s)						l l				
1,2-Dichloroethane-d4	435		500	87.0			73-130			1
Toluene-d8	470	1	500	94.0	1	1 1	81-114			



Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Roger Batra

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42014408

Conoco Phillips # 5043

Received: 05/10/2005 17:10

Site: 449 Hegenberger Rd, Oakland

	Batch e.c. R	EPOT
Prep(s); 5030B	Test(s): 8260B
Matrix	(Spike (MS/MSD) Water	QC Batch # 2005/05/13-1A.62
MS/M	SD	Lab ID: 2005-05-0122 - 003
MS:	2005/05/13-1A.62-059 Extracted: 05/13/2	005 Analyzed: 05/13/2005 11:59
		Dilution: 1.00
MSD.	2005/05/13-1A.62-025 Extracted: 05/13/2	005 Analyzed: 05/13/2005 12:25
		Dilution: 1.00

Compound	Conc		ıg/L	Spk.Leve	· R	ecovery	%	Limit	s %	F	ags
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	Ms	MSD
Methyl tert-butyl ether	36.1	33.6	11.5	25	98.4	88.4	10.7	65-165	20		
Benzene	25.3	25.2	ND	25	101.2	100.8	0.4	69-129	20		1
Toluene	25.3	24.1	ND	25	101.2	96.4	4.9	70-130	20		ł
Surrogate(s)				1					1 1		
1,2-Dichloroethane-d4	404	404		500	80.8	80.8		73-130			1
Toluene-d8	486	474	Į.	500	97.2	94.8		81-114			



Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Roger Batra

1590 Solano Way, Suite A Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42014408

Conoco Phillips # 5043

Received: 05/10/2005 17:10

Site: 449 Hegenberger Rd, Oakland

Legend and Notes

Analysis Flag

L2

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

STL-San Francisco

ConocoPhillips Chain Of Custody Record

1220 Quarry Lane

Pleasanton, CA 94566

ConocoPhillips Site Manager: Shelby Lathrop INVOICE REMITTANCE ADDRESS:

INVOICE REMITTANCE ADDRESS: CONCOPHILLIPS
Attn: Dea Hutchinson
3611 South Harbor, Suite 200

ConocoPhillips Work Order Number ConocoPhillips Cost Object

DATE:

	925) 484-1096 fax	10	w,	JTU	ワー	V	1	J	Santa	Ano,	CA.	9270	ı											
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Table 1
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
January 10, 2005
76 Station 5043

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness		Change in Elevation	TPH-G	TPPH 8260B	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE 8021B	MTBE 8260B	Comments
	(fect)	(feet)	(feet)	(feet)	(feet)	(μg/l)	(μg/l)	(μ g/ l)	(µg/l)	(μg/l)	(µg/l)	(μg/l)	(μg/l)	
MW-3		(Screen I	nterval in f	eet: 2.5-1	4.0)									
01/10/0	5 8.04	1.52	0.00	6.52	0.48		280	ND<0.50	0.62	ND<0.50	2.4		64	
MW-6		(Screen I	nterval in f	eet: 2.5-1	3.5)									
01/10/0	5 8.87	2.35	0.00	6,52	0.68		71000	1600	3700	2100	9900		ND<50	
MW-7		(Screen I	nterval in f	eet: 3.0-1	3.0)									
01/10/0	5 8,83	2.77	0.00	6.06	0.94		74	0.51	2.2	1.7	7.0		ND<0.50	
MW-8		(Screen I	nterval in f	eet: 3.0-1	5.0)									
01/10/0:	5 8.52	1.92	0.00	6.60	1.14		58	ND<0.50	0.61	1.2	4.0		ND<0.50	
MW-9		(Screen I	nterval in f	eet: 3.0-1	3.0)									
01/10/0:	5 8.29	0.07	0.00	8.22	1.21		93	0.60	2.3	2.4	9.0		ND<0.50	•
MW-19		(Screen I	nterval in f	eet: 3.0-1	3.0)									
01/10/0:	5 8.62	2.68	0.00	5.94	0.73	••	84	7.8	2.7	2.2	8.9	,	ND<0.50	•

14.36.00

APPENDIX C

Date of Bedress 5/12/2005

Requester's Name/Signature:

WATER QUALITY &		temediation Wastewater from Petrolet	
Responsible Dept: ESD	Orig. Issue: 12/1/94	Latest Revision: 12/17/03	Page: 1

Form R-149: Authorization for Receipt of Remediation Wastewater @ ConocoPhillipa's San Francisco Refinery at Rodeo

WASTEWATER TREATMENT PLANT (UNIT 100) OPERATORS:

5182454604

This form below, if approved, serves as an acceptance document to process the wastewater at the San Francisco Refinery Wastewater Treatment Plant, Unit 100. The Requester is required to supply all of the necessary analytical and completely fill out the following table:

Name: Ed Raiston

Telephone/Fax: Page 16-558-7633 Page 16-558-7639 Station No. and Location: COP #255043, 449 Hegenberger Road, Oakland, CA Description of Water Source: Purge Water - DPE test Total Volume of Water/Solids Expected: Water 2,000 gallons Purge Volume/Frequency: Volume 2,000 gallons Prediction Yes No Yes No Resticites/Fish Toxicity Expected: Yes No Yes No Maximum Rate of Disposal (ESD) 2000 Gallons per Wook The remediation wastewater described above has been reviewed for Federal and California Hazardous Waste characteristics. This water is (circle one): Fecommended Rot recommended For processing at the WWTP. This form is valid until: \$ \$ \$ \$ \$ \$ \$ \$ \$	Company;	ConocoPhillips	Date of Request: 3/12/2003
Station No. and Location: COP #255043, 449 Hegenberger Road, Oakland, CA Description of Water Source: Purge Water — DPE test Total Volume of Water/Solids Expected: Water 2,000 gallons Volume/Frequency: Pesticides/Fish Toxicity Expected: Maximum Rate of Disposal (ESD) Amaximum Rate of Disposal (ESD) The remediation wastewater described above has been reviewed for Federal and California Haxardous Waste characteristics. This water is (circle one): This form is valid until: ESD Signature: Operations Signature: O	Address:	76 Broadway, Sacramento, CA. 95818	
Description of Water Source: Total Volume of Water/Solids Expected: Water 2,000 gallons Expected per-Delivery Volume/Frequency: Volume 2,000 gallons Expected per-Delivery Volume/Frequency: Pesticides/Fish Toxicity Expected: Pesticides/Fish Toxicity Expected: Maximum Rate of Disposal (ESD) Zoco Gallons per Wook The remediation wastewater described above has been reviewed for Federal and California Hazardous Waste characteristics. This water is (circle one): This form is valid until: ESD Signature: Date Recommended: Date Recommended: Date Approved: S/16/05 Date Approved: Truck No. Diviver's info: UNIT 100 OPERATORS: Please fill out the portion below and forward this completed form to ESD in Room 11 of the Administration Building. Date and time of delivery: Delivered on: // AM/PM Volume delivered:	Telephone/Fax:	Phore:916-558-7633	PAX:916-558-7639
Total Volume of Water/Solids Expected: Water: 2,000 gallons Expected per-Delivery Volume/Frequency: Pesticides/Fish Toxicity Expected: Pesticides/Fish Toxicity Expected: Pesticides/Fish Toxicity Expected: Maximum Rate of Disposal (ESD) The remediation wastewater described above has been reviewed for Federal and California Hazardous Waste characteristics. This water is (circle one): This form is valid until: ESD Signature: Operations Signature: Date Recommended: Date Approved: Date Approved: Truck No. PH at site UNIT 100 OPERATORS: Please fill out the portion below and forward this completed form to ESD in Room of the Administration Building. Date and time of delivery: Delivered on:	Station No. and Location:	COP #255043, 449 Hegenberger Road, Oakland, CA	
Expected per-Delivery Volume/Frequency: Volume Volume Volume/Frequency: Volume Volume Volume Special Spec	Description of Water Source:	Purge Water - DPE test	
Pesticides/Fish Toxicity Expected: Pesticides/Fish Toxicity Expected: Pesticides Yes No Pish Time: Yes No	Total Volume of Water/Solids Expected:	w _{ster} : 2,000 gallons	so minimal
Pesticides/Fish Toxicity Expected: Maximum Rate of Disposal (ESD) Date Recommended: Circle one): This water is (circle one): This form is valid until: ESD Signature: Date Recommended: Date Approved: Date Approved: Diver's info: Truck No. Diver's info: Date Administration Building. Date and time of delivery: Delivered on	Expected per-Delivery Volume/Frequency	<u> </u>	
The remediation wastewater described above has been reviewed for Federal and California Hazardous Waste characteristics. This water is (circle one): Fecommended not recommended for processing at the WWTP. This form is valid until: \$1405 Operations Signature: Date Recommended: 5/16/05 Operations Signature: Date Approved: 5/17/55 IRUCK DRIVERS: Please provide a copy of this R-149 form upon delivery of wastewater to Unit 100. Oriver's info: Truck No. pH at site UNIT 100 OPERATORS: Please fill out the portion below and forward this completed form to ESD in Room 111 of the Administration Building. Date and time of delivery: Delivered on:	Pesticides/Fish Toxicity Expected:	Pesticides Yes No	Fish Trix; Yes No
This water is (circle one):	Maximum Rate of Disposal (ESD)	2000	Gallons per Wook
This form is valid until: ESD Signature: Operations Signature: Op	The remediation wastewater described above has been reviewed for Federal and California Hazardous Waste characteristics.		
Truck No pH at site	ESD Signature: Operations Signature:	un (failing)	•
Date and time of delivery: Delivered on://	Driver's info:	nck No. pH	at site
Volume delivered: Delivered on:/ @AM/PM	<u>UNIT 100 OPERATORS</u> : Please fill out the portion below and forward this completed form to ESD in Room 111 of the Administration Building.		
	Date and time of delivery:		
	De	livered on://	@ AM / PM

NO FREE PRODUCT ACCEPTED

GRANITY OFFICIAL ONLY

Any questions? Cail: ONYX/Mark Laliberte:

(510) 245-4403, (510); FAX: (707) 745-0510; (510) 245-4465 or DIRECT: (707) 748-3722; FAX (510) 245-4476. CELL: (510) 715-6532

TRC: Dennis Jensen; 21 Technology Drive, Irvine, CA 92618; (949) 753-0101 (office); (949) 753-0111 (fax); djensen@tresolutions.com