

76 Broadway Sacramento, California 95818

April 28, 2006

RECEIVED

By lopprojectop at 8:39 am, May 01, 2006

Mr. Don Hwang Alameda County Health Agency 1131 Harbor Bay Parkway Alameda, California 94502

Re: Report Transmittal

SOIL AND GROUNDWATER INVESTIGATION REPORT

76 Service Station# 3538 411 W. MacArthur Boulevard Oakland, CA

Dear Mr. Hwang:

I declare under penalty of perjury that to the best of my knowledge the information and/or recommendations contained in the attached report is/are true and correct.

If you have any questions or need additional information, please contact

Shelby S. Lathrop (Contractor) ConocoPhillips Risk Management & Remediation 76 Broadway Sacramento, CA 95818 Phone: 916-558-7609 Fax: 916-558-7639

Sincerely,

Thomas Kosel

Risk Management & Remediation

Home H. Koal

Attachment



April 28, 2006

TRC Project No. 42014209

RECEIVED

By lopprojectop at 8:39 am, May 01, 2006

Mr. Don Hwang Hazardous Materials Specialist Alameda County Health Care Services Agency 1131 Harbor Bay Parkway Alameda, CA 94502-6577

SITE: FORMER 76 SERVICE STATION #3538

411 WEST MACARTHUR OAKLAND, CALIFORNIA

RE: SOIL AND GROUNDWATER INVESTIGATION REPORT

Dear Mr. Hwang:

On behalf of ConocoPhillips Company (ConocoPhillips), TRC submits this Soil and Groundwater Investigation Report documenting the results the additional assessment conducted at Former 76 Station No. 3538 located at 411 West MacArthur in Oakland, California (Figure 1). This work was performed pursuant to a request from the Alameda County Health Care Services (ACHCS) in their December 15, 2005 approval letter.

Please call Keith Woodburne at (925) 688-2488 if you have any questions regarding this report.

Sincerely,

TRC

Jeremy Kearns

Staff Scientist

Keith Woodburne, P.G.

Senior Project Geologist

Enclosure

cc: Shelby Lathrop, ConocoPhillips (electronic upload only)

RECEIVED

By lopprojectop at 8:39 am, May 01, 2006

SOIL AND GROUNDWATER INVESTIGATION REPORT

April 28, 2006

Former 76 Service Station #3538 411 West MacArthur Oakland, California

TRC Project No. 420114208

Prepared For:

ConocoPhillips Company 57 Broadway Sacramento, California 94818

By:

Jeremy Kearns Staff Scientist

Keith Woodburne P.G. Senior Project Geologist

TRC 1590 Solano Way Concord, California (925) 688-1200

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- A. Soil Boring Logs and Permits
- B. Laboratory Analytical Reports and Chain of Custody Records



Former 76 Service Station 3538 April 28, 2006

1.0 INTRODUCTION

On behalf of ConocoPhillips, TRC submits this Soil and Groundwater Investigation Report documenting the results of additional site assessment activities at former 76 Service Station No. 3538 located at 411 West MacArthur in Oakland, California (Figure 1). This work was performed pursuant to a request by the Alameda County Health Care Services (ACHCS) in their December 15, 2005 approval letter.

2.0 SITE DESCRIPTION

The subject site was a former Tosco (76) service station, and is located on the southwest corner of MacArthur Boulevard and Webster Street in Oakland, California (Figure 1). The site is currently a used car sales lot and is entirely fenced. All petroleum storage and dispensing equipment were removed in September of 1998 during station demolition activities. Six groundwater monitoring wells are present at and in the site vicinity (Figure 2).

2.1 GEOLOGY AND HYDROGEOLOGY

Based on review of regional geologic maps the site is underlain by Late Pleistocene Alluvium. This Alluvium is considered to be alluvial fan deposits, and is described as consisting of weakly consolidated, slightly weathered, irregularly interbedded clay, silt, sand and gravel. The maximum thickness of these deposits is unknown, but is considered to be at least 150 feet thick.

Based on subsurface investigations performed at the site, the first 1.5 feet of the subsurface is composed of artificial fill. The fill is underlain by an unsaturated zone consisting of clay with minor amounts of sand and gravel, to a depth of approximately 18 feet below ground surface (bgs). The saturated zone, extending from approximately 18 to 30 feet bgs (limit of exploration), is composed of gravel with silt and sand, interbedded with clayey sand and clayey silt.

Monitoring and sampling of wells at the Site has been performed since September 1989. Depth to groundwater has varied from approximately 11 to 19 feet bgs. Groundwater flow direction has been predominantly towards the south and south-southeast with occasional deviations to the east-southeast and southwest. A rose diagram plot of 23 flow directions based on groundwater monitoring data from 1995 to 2005 is shown on Figure 3.

3.0 SITE BACKGROUND

July 1989: One 10,000-gallon and one 12,000-gallon gasoline underground storage tanks (USTs) were removed and replaced with two new 12,000-gallon USTs. One 550-gallon waste oil UST and associated piping for all three tanks were also removed. No holes or cracks were observed in the gasoline USTs; however, holes were observed in the waste oil UST.



Former 76 Service Station 3538 April 28, 2006

Groundwater was encountered in the former UST pit at a depth of approximately 10.5 feet bgs, which prohibited the collection of soil samples below the former gasoline tanks. Confirmation soil samples from the sidewalls contained moderate maximum concentrations of total petroleum hydrocarbons as gasoline (TPH-g), and low maximum concentrations of benzene.

These sample areas were subsequently removed during over excavation. Soil samples from the base of the waste oil UST pit were non-detect for TPH-g and benzene, toluene, ethyl benzene, and xylenes (BTEX).

September 1989: Karpealian Engineering, Inc. (KEI) installed four groundwater monitoring wells at the site. The four wells were installed to depths of approximately 30 feet bgs.

November 1992: Two additional groundwater monitoring wells were installed offsite to a depth of 30 feet bgs.

September 1998: Two 12,000-gallon gasoline USTs and associated product piping and dispensers were removed from the site during station demolition activities. No holes or cracks were observed in the tanks. Confirmation soil samples contained low maximum concentrations of TPH-g and benzene, and methyl tertiary butyl ether (MTBE) was not detected.

October 2003: Site environmental consulting responsibilities were transferred to TRC.

4.0 SITE INVESTIGATION ACTIVITIES

On March 27 and 28, 2006, TRC conducted additional soil and groundwater assessment at the Site. The investigation involved the advancement of three onsite soil boring (SB-3, SB-4, and SB5) and two offsite soil borings (SB-1 and SB-2) to sufficient depth to obtain representative groundwater samples (approximately 16 feet bgs). The locations of the soil borings are shown in Figure 2.

4.1 PRE-FIELD ACTIVITIES

Prior to commencing soil-boring activities, permits were acquired from the ACHCS. Underground Service Alert (USA) was notified at least two days prior to field activities to mark underground utilities at the property boundaries. In addition, a private utility locator was used to confirm the absence of buried utilities at each boring location. Prior to drilling each boring, a pilot hole was cleared with an air knife to approximately 5 feet bgs to verify the absence of buried utilities.



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A site and job specific health and safety plan that promotes personnel safety and preparedness during the planned field activities was prepared prior to the site investigation and a copy of the plan was available onsite during the investigation. On the morning of the day that the field activities commenced, a "tailgate" meeting was conducted with all exclusion zone workers to discuss the health and safety issues and concerns related to the specific work.

4.2 SOIL AND GROUNDWATER SAMPLING

On March 27 and 28, 2006, three onsite soil borings (SB-3 through SB-5) and two offsite borings (SB-1 and SB-2) were advanced to a total depth of between 20 and 24 feet bgs, at the locations shown on Figure 2. Soil sampling was completed by direct-push techniques using a truck-mounted direct-push rig. Soil samples were collected continuously to the total depth of each boring. Samples were collected for soil description in accordance with the Unified Soil Classification System (ASTM D-2487) and field hydrocarbon vapor testing using a hand-held photo-ionization detector (PID). Two soil samples were collected from each boring and held for laboratory analysis. Soil boring logs and permits (drilling and encroachment) are located in Appendix A.

Each boring was completed to a depth sufficient to obtain a representative grab groundwater sample. When groundwater was encountered, a grab sample was collected by placing a temporary ³/₄inch diameter PVC well screen into the boring. All water samples were collected using disposable bailer. Samples were transported to a state-certified laboratory under chain of custody protocol, providing a continuous record of sample possession prior to analysis.

Collected samples were analyzed for total purgeable petroleum hydrocarbons (TPPH), benzene, toluene, ethylbenzene, total xylenes (BTEX), and fuel oxygenates, including methyl tertiary butyl ether (MTBE), tertiary butyl alcohol (TBA), di-isopropyl ether (DIPE), tertiary amyl methyl ether (TAME), ethyl tertiary butyl ether (ETBE) 1,2-dichloroethane (1,2-DCA), 1,2-dibromoethane (EDB), and ethanol by EPA Method 8260B.

After sampling was completed, all borings were properly sealed with neat cement grout. A tremie pipe was used to place the grout from the bottom of the boring to within one foot of surface grade in one continuous pour. The boring was then completed to grade level with concrete, dyed to match the surrounding area.

4.3 LABORATORY ANALYTICAL RESULTS

Analytical results of the soil and grab groundwater samples are presented in Table 1 and Table 2 respectively. Copies of the laboratory analytical reports and chains of custody are provided in Appendix B.



Former 76 Service Station 3538 April 28, 2006

Soil Results

Significant soil impacts were only identified in one onsite soil boring (SB-3) collected at a depth of 16 feet bgs. TPPH, toluene, ethylbenzene, and total xylenes were detected in sample SB-3 @16 at concentrations of 6,100 milligrams per kilogram (mg/kg), 53, mg/kg, 86, mg/kg, and 420 mg/kg, respectively. Minor concentrations of TPPH, BTEX, MTBE, and TBA were detected in the soil sample SB-3@14' and a minor concentration of TPPH were detected in the soil sample SB-1@9'. No target analytes were detected in any soil samples from the remaining borings at or above the laboratory reporting limits. Soil analytical results are presented in Table 1.

Groundwater Results

TPPH, benzene, and MTBE were detected at significant concentrations in grab groundwater samples from offsite boring SB-1W and onsite borings SB-3W and SB-5W. TPPH, benzene, and MTBE were detected at maximum concentrations of 13,000 micrograms per liter (μ g/l), 510 μ g/l, and 340 μ g/l in onsite boring SB-3W. TPPH, benzene, and MTBE were detected in offsite boring SB-1W at concentrations of 120 μ g/l, 11 μ g/l, and 30 μ g/l, respectively. Grab groundwater analytical results are presented in Table 2.

4.4 WASTE DISPOSAL

Soil cuttings and purge water generated during site assessment activities were temporally stored onsite in Department of Transportation (DOT)-approved 55-gallon drums pending disposal to an approved disposal/recycling facility.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The purpose of this investigation was to define the distribution of petroleum hydrocarbons and fuel oxygenates, including MTBE in site soils and groundwater, and to assess the offsite extent of dissolved-phase groundwater impacts downgradient of monitoring wells MW-2 and MW-3. The presence of TPPH, benzene, and MTBE in the grab groundwater sample from offsite boring SB-1, and absence of detections in offsite boring SB-2 indicate that the dissolved-phase plume has migrated a short distance offsite to the south-southeast.

TRC recommends installation of two offsite monitoring well along the east and west side of Webster Street in the vicinity and slightly downgradient of boring SB-1 to monitor the current dissolved-phase plume and to provide a monitoring point for evaluating plume stability.

TRC will prepare a Site Conceptual Model (SCM), per Alameda County guidance for electronic report submittal, to summarize site conditions and evaluate path forward. TRC will include a work plan for the offsite well installation as an attachment to the electronic SCM.



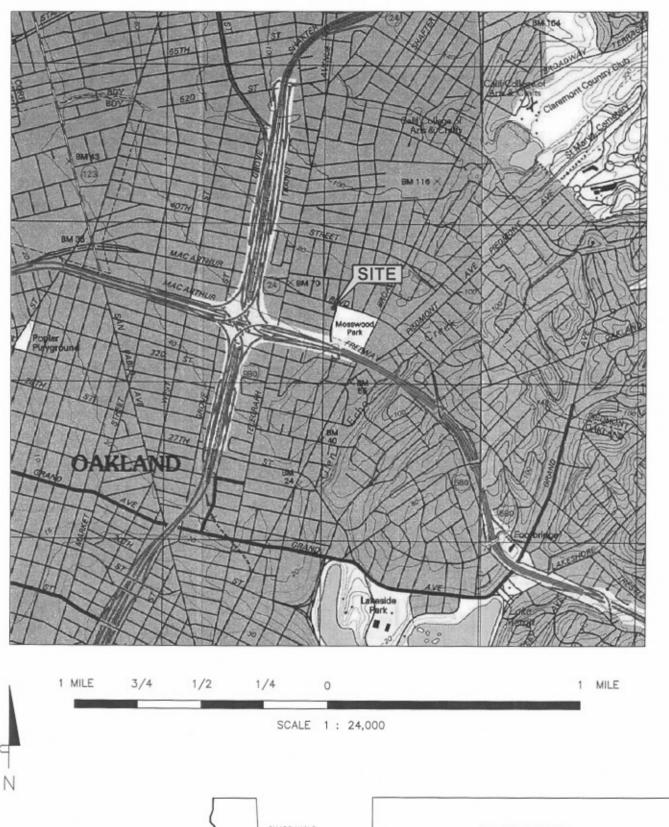
Former 76 Service Station 3538 April 28, 2006

Based on information presented in the SCM, and on subsequent groundwater monitoring data from the proposed offsite wells, TRC may recommend site closure after several quarters of monitoring if the plume appears stable and remains defined within the monitoring well network.



FIGURES





SOURCE:

United States Geological Survey 7.5 Minute Topographic Maps: Oakland East and Oakland West Quadrangles, California

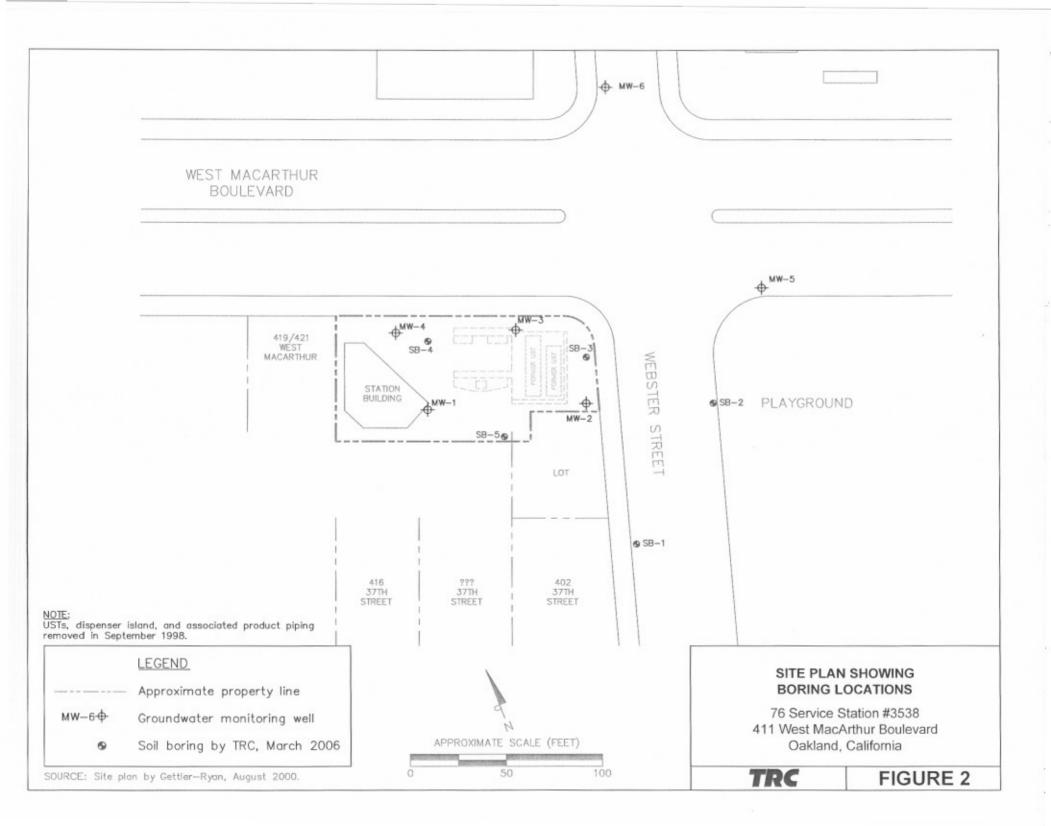


VICINITY MAP

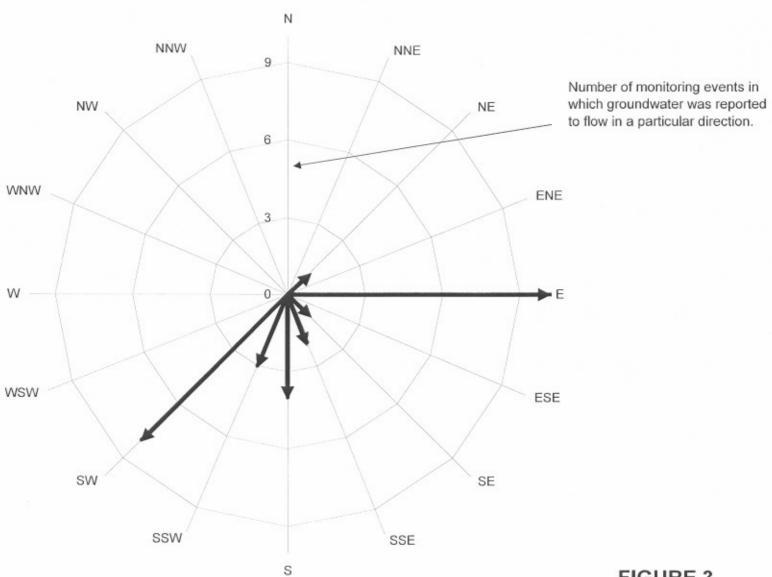
76 Service Station #3538 411 West MacArthur Boulevard Oakland, California

TRC

FIGURE 1



Historical Groundwater Flow Directions for Tosco (76) Service Station No. 3538 February 1990 through March 2006





TABLES

Table 1

RESULTS OF LABORATORY ANALYSIS OF SOIL SAMPLES
Former 76 Service Station 3538

411 West MacArthur Oakland, California

Sample	Sample	Depth	TPH-g	Benzene	Tolulene	Ethyl- benzene	Total Xylenes	MTBE	TBA	TAME (mg/kg)	DIPE (ma/kg)	ETBE (mg/kg)	EDB (mg/kg)	1,2 DCA (mg/kg)	Ethanol (mg/kg)	Lead (mg/kg)
Number	Date	(fbg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg) EPA	(mg/kg) Method 82	(mg/kg) 60B	(mg/kg)	(IIIg/Kg)	(mg/kg)	(mg/kg)	(mg/kg)	6061B
SB - 1 @ 5'	3/27/2006	5.0	<0.97	<0.0049	<0.0049	<0.0049	<0.0097	<0.0049	<0.0097	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.49	-
SB - 1 @ 9'	3/27/2006	9.0	2.8	<0.0048	<0.0048	<0.0048	<0.0097	<0.0048	<0.0097	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.48	
SB - 2 @ 5'	3/27/2006	5.0	<0.97	<0.0049	<0.0049	<0.0049	<0.0097	<0.0049	<0.0097	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.49	
SB - 2 @ 9'	3/27/2006	9.0	< 0.93	< 0.0047	< 0.0047	<0.0047	<0.0093	< 0.0047	<0.0093	<0.0047	<0.0047	<0.0047	< 0.0047	<0.0047	< 0.47	
SB - 3 @ 14'	3/27/2006	14.0	1.3	0.11	<0.0046	0.061	0.055	0.64	0.19	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	< 0.49	
SB - 3 @ 16'	3/27/2006	16.0	6,100	<9.7	53	86	420	<9.7	<19	<9.7	<9.7	<9.7	<9.7	<9.7	<190	
SB - 4 @ 5'	3/28/2006	5.0	<0.93	<0.0047	<0.0047	<0.0047	<0.0093	<0.0047	<0.0093	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.47	
SB - 4 @ 15'	3/28/2006	15.0	<0.92	<0.0046	<0.0046	<0.0046	<0.0092	<0.0046	<0.0092	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	< 0.46	
SB - 5 @ 9'	3/28/2006	9.0	<0.93	<0.0046	<0.0046	<0.0046	<0.0093	<0.0046	<0.0093	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	< 0.46	
SB - 5 @ 13'	3/28/2006	13.0	<0.93	<0.0047	<0.0047	<0.0047	<0.0093	<0.0047	<0.0093	<0.0046	<0.0047	<0.0047	<0.0047	< 0.0047	<0.47	
Composite	3/28/2006	na	<0.95	<0.0047	0.013	0.0051	0.023	0.037	0.073	<0.0047	<0.0047	<0.0047	<0.0047	< 0.0047	<0.47	15
Notes:	TBA MTBE DIPE ETBE	= tertiary b = methyl te = di-isopro	iary butyl ether	er	s		TAME 1,2-DCA EDB fbg mg/kg	= 1,2-dichk = ethylene = feet below	dibromide v grade s per kilogram	or .	na					

Table 2

RESULTS OF LABORATORY ANALYSIS OF GRAB GROUNDWATER SAMPLES
Former 76 Service Station 3538

411 West MacArthur Oakland, California

Sample Number	Sample Date	TPPH (µg/kg		Ethyl- benzene (µg/kg)	Tolulene (µg/kg)	Total Xylenes (µg/kg)	MTBE (µg/kg)	TBA (μg/kg) EPA 8260B	TAME (μg/kg)	DIPE (µg/kg)	ETBE (µg/kg)	EDB (µg/kg)	1,2 DCA (µg/kg)	Ethanol (µg/kg)
SB - 1W	3/27/2006	120	11	<0.50	<0.50	<1.0	130	28	<0.50	<1.0	<0.50	<0.50	<0.50	<100
SB - 2W	3/27/2006	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	< 0.50	<1.0	<0.50	<0.50	<0.50	<100
SB - 3W	3/27/2006	13,000	510	470	1,400	2,600	340	57	<5.0	<10	<5.0	<5.0	<5.0	<100
SB - 4W	3/28/2006	<50	<0.50	<0.50	<0.50	<1.0	3.4	<5.0	<0.50	<1.0	<0.50	<0.50	<0.50	<100
SB - 5W	3/28/2006	3,000	44	63	1.2	30	53	17	<0.50	<1.0	<0.50	<0.50	<0.50	<100
otes:														
	TPPH	= total p	irgeable petroleum	hydrocarbons		1,2-DCA	= 1,2-dichle	oroethane						
	TBA	= tertiary	butyl alcohol			EDB	= ethylene	dibromide						
	MTBE	= methy	tertiary butyl ether			ft MSL	= feet abo	ve mean sea level						
	DIPE	= di-isop	ropyl ether			ft boc	= feet belov	w top of casing						
	ETBE	= ethyl to	ertiary butyl ether			μg/L	= microgra	ams per liter						
	TAME	= tertian	amyl methyl ether			-	= not analy	zed						

APPENDIX A SOIL BORING LOGS AND PERMITS



			76		n #3538 lacArthur Blvd.	DATE DRILLED: 3/27/06 LOGGED BY: J. Kearns APPROVED BY: K. Woodburne, RG	EASTING	: NOT SURVEYED : NOT SURVEYED : NOT SURVEYED
PID/FID (ppm)	BLOWS PER 6 INCHES	RECOVERY	SAMPLE	DEPTH (feet below grade)		DRILLING CO.: Woodward Drilling LLING METHOD: 2-inch Direct Push SAMPLER TYPE: 4-foot Continuous Core TOTAL DEPTH: 20.00 feet PTH TO WATER: 16.25 feet DESCRIPTION	USCS	BORING BACKFILL DETAIL
				0	Asphalt concrete.		Aspholt	O Grout
4.0		3.0/			sand, medium pla	brown (10YR 3/3), 90% fines, 10% fine- to coarse-graine sticity, dry. ge to black (2.5/2.5/1), moist.	id //	
12.0		4.0/		10		ge to dark gray (5Y 4/1), 95% fines, 5% fine-grained san nge to olive gray (5Y 5/2).	d. CL	10
0.2		2.0/ 4.0	ı		loose, moist. CLAY (CL): Light	olive brown (2.5Y 5/6), 90% fines, 10% fine- to coarse-dium plasticity, moist.	SW	15
1.1		4.0/			SAND (SW): Dark grained sand, loo	grayish brown (2.5Y 4/2), 10% fines, 90% fine- to coars se, wet.	e- Sw	20
				25				25
				35				35
		R			LO	G OF EXPLORATORY BORI	NG	SB-1 PAGE 1 OF 1

			: 76		n #3538	DATE DRILLED: 3/27/06 LOGGED BY: J. Kearns		EAS'	TING:	NOT SURVEYED NOT SURVEYED
					lacArthur Blvd. California	APPROVED BY: K. Woodburne, RG DRILLING CO.: Woodward Drilling	EL	EVA	HON:	NOT SURVEYED
PID/FID (ppm)	BLOWS PER 6 INCHES	RECOVERY	SAMPLE	DEPTH (feet below grade)		LLING METHOD: 2-inch Direct Push SAMPLER TYPE: 4-foot Continuous Core TOTAL DEPTH: 24.00 feet PTH TO WATER: 16.25 feet DESCRIPTION		nscs	гиногосу	BORING BACKFILL DETAIL
0.2		3.0/ 3.0 4.0/ 4.0 4.0/ 2.0 2.0/ 2.0 4.0/ 4.0			grained sand, loos CLAY (CL): Light grained sand, me - @ 9': color chan gray (10YR 3/1) @ 11': color cha (10YR 3/2). CLAYEY SAND (S coarse-grained sa CLAY (CL): Yellov grained sand, med	olive brown (2.5Y 5/6), 90% fines, 10% fine- to coarse- dium plasticity, moist. ge to mottled light yellowish brown (2.5Y 6/3) and very nge to mottled brown (10YR 3/3) and very dark grayish SC): Yellowish brown (10YR 5/8), 30% fines, 72% fine-	dark	SC CL SC		0
				35						35— 35— 40— SB-2
		K		1	LUC	G OF EXPLORATORY BORI	NG			PAGE 1 OF 1

			: 7		n #3538	DATE DRILLED: 3/27/06 LOGGED BY: J. Kearns	EAS	TING	NOT SURVE	YED
			_		lacArthur Blvd. California	APPROVED BY: K. Woodburne, RG DRILLING CO.: Woodward Drilling	ELEVA	TION	NOT SURVE	YED
PID/FID (ppm)	BLOWS PER 6 INCHES	RECOVERY	SAMPLE	v grade)	DRI	LLING METHOD: 2-inch Direct Push SAMPLER TYPE: 4-foot Continuous Core TOTAL DEPTH: 24.00 feet PTH TO WATER: 16.69 feet DESCRIPTION	nscs	ПТНОСОБУ	BORING BACKFIL DETAIL	L
13.3		3.0/ 3.0 4.0/ 4.0		5	grained sand, loo: CLAY (CL): Dark sand, medium pla - @ 9': color chan	brown (10YR 3/3), 90% fines, 10% fine- to coarse-gra asticity, moist. ge to mottled light yellowish brown (10YR 4/4) and da 10YR 4/6), high plasticity.	ined		0 0 0 0 0 0 0 0 0 0	irout
1596		3.0/	The second secon	15		nge to mottled dusky red (10YR 3/2) and dark brown,	\subseteq		15	
0.0		4.0/		20	hydrocarbon odor CLAYEY SAND (5 brown (10YR 5/6)	SC): Mottled dark greenish gray (GLEY1 6/1) and yello	owish		20	
				30					30	
	T	R			LO	G OF EXPLORATORY BOR	ING		SB-3 PAGE 1 OF	1

			: 76		09 n #3538 MacArthur Blvd.	DATE DRILLED: 3/28/06 LOGGED BY: J. Kearns APPROVED BY: K. Woodburne, RG	EAS	TING:	NOT SURVEYED NOT SURVEYED NOT SURVEYED
					California	DRILLING CO.: Woodward Drilling		11011	NOT SURVETED
PID/FID (ppm)	BLOWS PER 6 INCHES	RECOVERY	SAMPLE	DEPTH (feet below grade)		LLING METHOD: 2-inch Direct Push SAMPLER TYPE: 4-foot Continuous Core TOTAL DEPTH: 24.00 feet PTH TO WATER: 16.39 feet DESCRIPTION	nscs	LITHOLOGY	BORING BACKFILL DETAIL
									O
8.3		3.0/		5 	CLAY (CL): Mottle fine- to coarse-gra	ed brown (10YR 4/3) and black (10YR 2/1), 90% fines ained sand, medium plasticity, moist.	, 10%		5 7
4.0		3.5/ 4.0		10	(10YR 3/4). SAND (SW): Very	ge to mottled dark gray (5Y 4/1) and dark yellowish br	rown		10
3.7		2.5/ 4.0			CLAY (CL): Brown medium plasticity - @ 12': color cha	se, dry. n (10YR 4/3), 90% fines, 10% fine- to coarse-grained:	sand,		15
3.7		2.0/ 4.0					\subseteq		
2.7		2.0/			CLAYEY SAND (S (10YR 5/6), 15% f	SC): Mottled pale brown (10YR 6/3) and yellowish brownines, 85% fine- to medium-grained sand, wet.	wn SC		20
				25 					25
				35					35
	7	R	C	40	LOG	OF EXPLORATORY BORI	NG	4	SB-4 PAGE 1 OF 1

			: 76	11 W. N	n #3538 lacArthur Blvd.	DATE DRILLED: 3/28/06 LOGGED BY: J. Kearns APPROVED BY: K. Woodburne, RG		EAS	TING:	NOT SURVE NOT SURVE	YED
PID/FID (ppm)	BLOWS PER 6 INCHES	RECOVERY	SAMPLE	DEPTH (feet below grade)		DRILLING CO.: Woodward Drilling LLING METHOD: 2-inch Direct Push SAMPLER TYPE: 4-foot Continuous Core TOTAL DEPTH: 20.00 feet PTH TO WATER: 18.00 feet DESCRIPTION		uscs	ПТНОГОБУ	BORING BACKFIL DETAI	L
1.1		3.0/ 3.0/ 4.0 4.0/ 4.0		0 	medium plasticity - @ 9': color char - @ 10': color cha CLAYEY SAND (grained sand, loo CLAY (CL): Mottli 5/6), 90% fines, 1 CLAYEY SAND (brown (10YR 5/6) - @ 19': color cha	nge to dark grayish brown (2.5Y 4/2). ange to dark olive gray (5Y 3/2). SC): Dark olive gray (5Y 3/2), 15% fines, 85% fine- to 6	coarse- (10YR ish	CL SC CL		0	Grout
		1	1	1	LOC	OF EXPLORATORY BURI	NG			PAGE 1 OF	1

Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street Hayward, CA 94544-1395 Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 02/27/2006 By jamesy

Permits Issued:

W2006-0153

Receipt Number: WR2006-0096

Permits Valid from 03/27/2006 to 03/28/2006

Application Id:

1140638117050

City of Project Site: Oakland

Site Location:

411 W. MacArthur Blvd. and Webster street immediatly adjacent to site.

Project Start Date:

03/27/2006

Completion Date: 03/28/2006

Applicant:

Client:

TRC - Rachelle Dunn

Phone: 925-688-2464

Property Owner:

1590 Solano Way, Suite A, Concord, CA 94520 ConocoPhilips Corporation

Phone: --

76 Broadway, Sacramento, CA 95818 ** same as Property Owner *

Total Due:

\$200.00

Total Amount Paid:

\$200.00

Payer Name: TRC Solutions, Inc. Paid By: CHECK

PAID IN FULL

Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 5 Boreholes

Driller: Woodward Drilling - Lic #: 710079 - Method: DP

Work Total: \$200.00

Specifications

Permit	Issued Dt	Expire Dt	#	Hole Diam	Max Depth
Number			Boreholes		
W2006-	02/27/2006	06/25/2006	5	2.00 in.	30.00 ft
0153					

Specific Work Permit Conditions

- Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site.
- 2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
- 3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
- 4. Applicant shall contact George Cashen for an inspection time at 510-670-6610 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
- Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
- 6. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

PROGRAMS AND SERVICES

Well Standards Program

The Alameda County Public Works Agency, Water Resources is located at: 399 Elmhurst Street Hayward, CA 94544

For Driving Directions or General Info, Please Contact 510-670-5480 or wells@acpwa.org

For Drilling Permit information and process contact James Yoo at

Phone: 510-670-6633 FAX: 510-782-1939 Email: Jamesy@acpwa.org

Alameda County Public Works is the administering agency of General Ordinance Code, Chapter 6.88. The purpose of this chapter is to provide for the regulation of groundwater wells and exploratory holes as required by California Water Code. The provisions of these laws are administered and enforced by Alameda County Public Works Agency through its Well Standards Program.

Drilling Permit Jurisdictions in Alameda County: There are four jurisdictions in Alameda County.

Location:	Agency with Jurisdiction	Contact Number
Berkeley	City of Berkeley	Ph: 510-981-7460 Fax: 510-540-5672
Fremont, Newark, Union City	Alameda County Water District	Ph: 510-668-4460 Fax: 510-651-1760
Pleasanton, Dublin, Livermore, Sunol	Zone 7 Water Agency	Ph: 925-454-5000 Fax: 510-454-5728

The Alameda County Public Works Agency, Water Resources has the responsibility and authority to issue drilling permits and to enforce the County Water Well Ordinance 73-68. This jurisdiction covers the western Alameda County area of Oakland, Alameda, Piedmont, Emeryville, Albany, San Leandro, San Lorenzo, Castro Valley, and Hayward. The purpose of the drilling permits are to ensure that any new well or the destruction of wells, including geotechnical investigations and environmental sampling within the above jurisdiction and within Alameda County will not cause pollution or contamination of ground water or otherwise jeopardize the health, safety or welfare of the people of Alameda County.

Permits are required for all work pertaining to wells and exploratory holes at any depth within the jurisdiction of the Well Standards Program. A completed permit application (30 Kb)*, along with a site map, should be submitted at least **ten (10) working days prior to the planned start of work**. Submittals should be sent to the address or fax number provided on the application form. When submitting an application via fax, please use a high resolution scan to retain legibility.

Complete Permit Application Check List (24 Kb)*

Fees

Beginning April 11, 2005, the following fees shall apply:

A permit to construct, rehabilitate, or destroy wells, including cathodic protection wells, but excluding dewatering wells, shall cost \$300.00 per well.

A permit to bore exploratory holes, including temporary test wells, shall cost \$200 per site. A site includes the project parcel as well as any adjoining parcels.

Please make checks payable to: Treasurer, County of Alameda

Permit Fees are exempt to State & Federal Projects

Applicants shall submit a letter from the agency requesting the fee exemption.

Scheduling Work/Inspections:

Alameda County Public Works Agency (ACPWA), Water Resources Section requires scheduling and inspection of permitted work. All drilling activities must be scheduled in advance. Availability of inspections will vary from week to week and will come on a first come, first served bases. To ensure inspection availability on your desired or driller scheduled date, the following procedures are required:

Please contact George Bolton at 510-670-5594 to schedule the inspection date and time (You must have drilling permit approved prior to scheduling).

Schedule the work as far in advance as possible (at least 5 days in advance); and confirm the scheduled drilling date(s) at least 24 hours prior to drilling.

Once the work has been scheduled, an ACPWA Inspector will coordinate the inspection requirements as well as how the Inspector can be reached if they are not at the site when Inspection is required. Expect for special circumstances given, all work will require the inspection to be conducted during the working hours of 8:30am to 2:30pm., Monday to Friday, excluding holidays.

Request for Permit Extension:

Permits are only valid from the start date to the completion date as stated on the drilling permit application and Conditions of Approval. To request an extension of a drilling permit application, applicants must request in writing prior to the completion date as set forth in the Conditions of Approval of the drilling permit application. Please send fax or email to Water Resources Section, Fax 510-782-1939 or email at wells@acpwa.org. There are no additional fees for permit extensions or for re-scheduling inspection dates. You may not extend your drilling permit dates beyond 90 days from the approval date of the permit application. **NO refunds** shall be given back after 90 days and the permit shall be deemed voided.

Cancel a Drilling Permit:

Applicants may cancel a drilling permit only in writing by mail, fax or email to Water Resources Section, Fax 510-782-1939 or email at wells@acpwa.org. If you do not cancel your drilling permit application before the drilling completion date or notify in writing within 90 days, Alameda County Public Works Agency, Water Resources Section may void the permit and No refunds may be given back.

Refunds/Service Charge:

A service charge of \$25.00 dollars for the first check returned and \$35.00 dollars for each subsequent check returned.

Applicants who cancel a drilling permit application before we issue the approved permit(s), will receive a FULL refund (at any amount) and will be mailed back within two weeks.

Applicants who cancel a drilling permit application after a permit has been issued will then be charged a service fee of \$50.00 (fifty Dollars). To collect the remaining funds will be determined by the amount of the refund to be refunded (see process below).

Board of Supervisors Minute Order, File No. 9763, dated January 9, 1996, gives blanket authority to the Auditor-Controller to process claims, from all County departments for the refund of fees which do not exceed \$500 (Five Hundred Dollars)(with the exception of the County Clerk whose limit is \$1,500).

Refunds over the amounts must be authorized by the Board of Supervisors Minute Order, File No. 9763 require specific approval by the Board of Supervisors.

The forms to request for refunds under \$500.00 (Five Hundred Dollars) are available at this office or any County Offices.

If the amount is exceeded, a Board letter and Minute Order must accompany the claim. Applicant shall fill out the request form and the County Fiscal department will process the request.

Enforcement

Penalty. Any person who does any work for which a permit is required by this chapter and who fails to obtain a permit shall be guilty of a misdemeanor punishable by fine not exceeding Five Hundred Dollars (\$500.00) or by imprisonment not exceeding six months, or by both such fine and imprisonment, and such person shall be deemed guilty of a separate offense for each and every day or portion thereof during which any such violation is committed, continued, or permitted, and shall be subject to the same punishment as for the original offense. (Prior gen. code §3-160.6)

Enforcement actions will be determined by this office on a case-by-case basis

Drilling without a permit shall be the cost of the permit(s) and a fine of \$500.00 (Five Hundred Dollars).

Well Completion Reports (State DWR-188 forms) must be filed with the Well Standards Program within 60 days of completing work. Staff will review the report, assign a state well number, and then forward it to the California Department of Water Resources (DWR). Drillers should not send completed reports to DWR directly. Failure to file a Well Completion Report or deliberate falsification of the information is a misdemeanor; it is also grounds for disciplinary action by the Contractors' State License Board. Also note that filed Well Completion Reports are considered private record protected by state law and can only be released to the well owner or those specifically authorized by government agencies. Links to pertinent forms are provided below.

Well Completion Report Form*
Well Owner's Request Form for Previously Filed Forms (41Kb)*
Government Authorization Form for the Release of Forms (46 Kb)*
Site Hazard Information Form (51 Kb)*

^{*} Adobe PDF Reader is Required.

ent Agency (LAND . Community and Economic Devel-

250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 . Phone (510) 23o-3443 . FAX (510) 238-2263

Job Site 411 W MACARTHUR BL

Parcel# 012 -0945-046-01

Appl# OB060249

reserve parking for soil boring

Permit Issued 03/23/06

Nbr of days: 1

Effective: 03/27/06

Linear feet:

SHORT TERM NON-METERED

Expiration:

03/27/06

Applent

Phone#

Lic# -- License Classes --

Owner YU ARTHUR & MA KEVIN

Contractor WOODWARD DRILLING CO., INC

Arch/Engr

Agent TRC SOLUTIONS/R DUNN

Applic Addr P.O.BOX 336, RIO VISTA, CA, 94571

(925) 260-6722

\$117.62 TOTAL FEES PAID AT ISSUANCE \$59.00 Applic \$43.50 LC \$9.74 Rec Mgmt

(707)374-4300 710079 C57

\$.00 Process \$9.74 Rec Mgm \$.00 Gen Plan \$.00 Invstg

\$.00 Other

\$5.38 Tech Enh

JOB SITE

CITY OF OAKLAND

TCP needs to be approved by Transportation Services every 30 days or whenever deviated from the previously approved plan.

Sapplicant: Relylle

Issued by:

(LAND . Community and Economic Development

250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 . Phone (510) 236-3443 . FAX (510) 238-2263

Job Site 411 W MACARTHUR BL Parcel# 012 -0945-046-01 Appl# X0600315

Descr soil boring

Permit Issued 03/23/06

Work Type EXCAVATION-PRIVATE P

USA #

Util Co. Job Util Fund #

Applent

-License Classes--

Owner YU ARTHUR & MA

Contractor WOODWARD DRILLING CO., INC

Arch/Engr

Agent TRC SOLUTIONS/R DUNN

Applic Addr P.O.BOX 336, RIO VISTA,

(925) 260 - 6722

\$411.96 TOTAL FEES PAID AT ISSUANCE

\$59.00 Applic

(707)374-4B00 710079 C57

\$300.00 Permit

\$.00 Process

\$34.11 Rec Mgmt

\$.00 Gen Plan

\$.00 Invstq

\$.00 Other

\$18.85 Tech Enh

JOB SITE

CITY OF OAKLAND

ADDRESS

DIST



EXCAVATION PERMIT

CIVIL ENGINEERING

TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

PAGE 2 of 2

	and sever water out	remit valid	d for 90 days from date of Issuance.	
PERMIT NUMBER X 0	600315			
APPROX. START DATE 3/27/06	APPROX. END DATE 3/27/06	24-HOUR EMERGENCY PHONE NU (Permit not valid without 24-Hour numb	UMBER (925) 😂 760-6722 (ber)	
CONTRACTOR'S LICENSE # AND	CLASS	CITY BUSINESS TAX#		
C-57 # 71007	-9	149677		
secured an inquiry id	entification number issued by USA. The r to starting work, you MU	USA telephone number is 1-800-642-7444. Ur UST CALL (510) 238-3651 to 8	re excavating. This permit is not valid unless applicant has Inderground Service Alert (USA) # 097617 schedule an inspection. ved for approved slurry backfill).	
OWNER/BUILDER				
construct, alter, improve, demolish, or provisions of the Contractor's License, alleged exemption. Any violation of S II I, as an owner of the property, or n Professions Code: The Contractor's L provided that such improvements are n burden of proving that he did not build II I, as owner of the property, am exc be performed prior to sale, (3) I have a structures more than once during any till I as owner of the property, am exc	repair any structure, prior to its issual law Chapter 9 (commencing with Sec. ection 7031.5 by any applicant for a per property with wages as their sole incease Law does not apply to an owne or intended or offered for sale. If how or improve for the purpose of sale), apply from the sale requirements of the esided in the residence for the 12 mon- urer-year period. (Sec. 7044 Business insively contracting with licensed cont who builds or improves thereon, and	nce, also requires the applicant for such perix 7000) of Division 3 of the Business and Pro- ermit subjects the applicant to a civil penalty compensation, will do the work, and the star of property who builds or improves thereorever, the building or improvement is sold will above due to: (1) I am improving my princit the prior to completion of the work, and (4) and Professions Code), ractors to construct the project, (Sec. 7044, I who contracts for such projects with a contra-	Professions Code: Any city or county which requires a permit to mit to file a signed statement that he is licensed pursuant to the ofessions Code, or that he is exempt therefrom and the basis for the of not more than \$500): ructure is not intended or offered for sale (Sec. 7044, Business on, and who does such work himself or through his own employees within one year of completion, the owner-builder will have the cityal place of residence or appurtenances thereto, (2) the work will I have not claimed exemption on this subdivision on more than two Business and Professions Code: The Contractor's License Law ractor(s) licensed pursuant to the Contractor's License law).	ne s,
Policy # State For	2020-238-2004 Company Nam the work for which this permit is issue	e State Fund d, I shall not employ any person in any many	or a certified copy thereof (Sec. 3700, Labor Gode). nuer so as to become subject to the Worker's Compensation Laws	
comply with such provisions or this per granted upon the express condition that perform the obligations with respect to and employees, from and against any a sustained or arising in the construction	mit shall be deemed revoked. This pe the permittee shall be responsible for a street maintenance. The permittee sha and all suits, claims, or actions brought of the work performed under the perm	emit is issued pursuant to all provisions of T all claims and liabilities arising out of work p II, and by acceptance of the permit agrees to by any person for or on account of any bodi	Compensation provisions of the Labor Code, you must forthwith Fitle 12 Chapter 12.12 of the Oakland Municipal Code. It is performed under the permit or arising out of permittee's failure to defend, indemnify, save and hold harmless the City, its officers lify injuries, disease or illness or damage to persons and/or propert o perform the obligations with respect to atreet maintenance. This and Building.	ty
I hereby affirm that I am licensed under this permit and agree to its requirement			my license is in full force and effect (if contractor), that I have read	d
Raubelle Co	Applific P December 17 0		3/23/06 Date	
DATE STREET LAST	Agent for Contractor □ Owner SPECIAL PAVING DETAIL	HOLIDAY RESTRICTION?	LIMITED OPERATION AREA?	
RESURFACED	REQUIRED? OYES ONO	(NOV-1-JAN I) DYES		
ISSUED BY	0	DATE ISSUED		

APPENDIX B

LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY RECORDS





ANALYTICAL REPORT

Job Number: 720-2895-1

Job Description: Conoco Phillips #3538, Oakland

For: TRC Solutions 1590 Solano Way, Suite A Concord, CA 94520

Attention: Mr. Keith Woodburne

Sharma

Dimple Sharma Project Manager I dsharma@stl-inc.com 04/05/2006

Project Manager: Dimple Sharma

METHOD SUMMARY

Client: TRC Solutions

Job Number: 720-2895-1

Descript	tion	Lab Location	Method	l Prepa	aration Method
Matrix:	Solid				
Volatile O	rganic Compounds by GC/MS	STL-SF	SW846	8260B	
	Purge and Trap for Solids	STL-SF		SV	V846 5030B
	Purge-and-Trap for Aqueous Samples/High	STL-SF		SV	V846 5030B
Inductivel	ly Coupled Plasma - Atomic Emission Spectrometry	STL-SF	SW846	6010B	
	Acid Digestion of Sediments, Sludges, and Soils	STL-SF		SV	V846 3050B
Matrix:	Water				
Volatile O	rganic Compounds by GC/MS	STL-SF	SW846	8260B	
	Purge-and-Trap	STL-SF		SW	/846 5030B

LAB REFERENCES:

STL-SF = STL-San Francisco

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: TRC Solutions

Job Number: 720-2895-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-2895-1	SB-1@5'	Solid	03/27/2006 1008	03/29/2006 1230
720-2895-2	SB-1@9'	Solid	03/27/2006 1014	03/29/2006 1230
720-2895-3	SB-2@5'	Solid	03/27/2006 1158	03/29/2006 1230
720-2895-4	SB-2@9'	Solid	03/27/2006 1206	03/29/2006 1230
720-2895-5	SB-3@14'	Solid	03/27/2006 1505	03/29/2006 1230
720-2895-6	SB-3@16'	Solid	03/27/2006 1515	03/29/2006 1230
720-2895-7	SB-4@5'	Solid	03/28/2006 0828	03/29/2006 1230
720-2895-8	SB-4@15'	Solid	03/28/2006 0903	03/29/2006 1230
720-2895-9	SB-5@9'	Solid	03/28/2006 1046	03/29/2006 1230
720-2895-10	SB-5@13'	Solid	03/28/2006 1046	03/29/2006 1230
720-2895-11	SB-1W	Water	03/27/2006 1045	03/29/2006 1230
720-2895-12	SB-2W	Water	03/27/2006 1336	03/29/2006 1230
720-2895-13	SB-3W	Water	03/27/2006 1600	03/29/2006 1230
720-2895-14	SB-4W	Water	03/28/2006 0935	03/29/2006 1230
720-2895-15	SB-5W	Water	03/28/2006 1150	03/29/2006 1230
720-2895-20	COMP	Solid	03/28/2006 1250	03/29/2006 1230

Analytical Data

Client: TRC Solutions Job Number: 720-2895-1

Client Sample ID: SB-1@5'

 Lab Sample ID:
 720-2895-1
 Date Sampled:
 03/27/2006 1008

 Client Matrix:
 Solid
 Date Received:
 03/29/2006 1230

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-7157 Instrument ID: Varian 3900E

Preparation: 5030B Lab File ID: c:\varianws\data\200603\03

Dilution: 1.0 Initial Weight/Volume: 5.14 g

Date Analyzed: 03/30/2006 1556 Final Weight/Volume: 10 mL Date Prepared: 03/30/2006 1556

Analyte Dr	yWt Corrected: N	Result (mg/Kg)	Qualifier	RL
1,2-Dichloroethane		ND		0.0049
Benzene		ND		0.0049
Ethanol		ND		0.49
Ethylbenzene		ND		0.0049
MTBE		ND		0.0049
TAME		ND		0.0049
Toluene		ND		0.0049
Xylenes, Total		ND		0.0097
TBA		ND		0.0097
DIPE		ND		0.0049
EDB		ND		0.0049
Gasoline Range Organics (GRO)-C6-	C12	ND		0.97
Ethyl tert-butyl ether		ND		0.0049
Surrogate		%Rec		Acceptance Limits
Toluene-d8		96		70 - 130
1,2-Dichloroethane-d4		103		60 - 140

Analytical Data

Job Number: 720-2895-1 Client: TRC Solutions

Client Sample ID:

SB-1@9'

Lab Sample ID: Client Matrix:

720-2895-2

Solid

Date Sampled: 03/27/2006 1014

Date Received: 03/29/2006 1230

8260B Volatile Organic Compounds by GC/MS

Method: Preparation: 8260B

Analysis Batch: 720-7157

Instrument ID: Varian 3900E

Dilution:

5030B

Lab File ID:

c:\varianws\data\200603\03

1.0

Initial Weight/Volume: 5.18 g Final Weight/Volume:

10 mL

Date Analyzed: Date Prepared:

03/30/2006 1910 03/30/2006 1910

Analyte D	yWt Corrected: N Result (mg/Kg)	Qualifier	RL
1,2-Dichloroethane	ND		0.0048
Benzene	ND		0.0048
Ethanol	ND		0.48
Ethylbenzene	ND		0.0048
MTBE	ND		0.0048
TAME	ND		0.0048
Toluene	ND		0.0048
Xylenes, Total	ND		0.0097
TBA	ND		0.0097
DIPE	ND		0.0048
EDB	ND		0.0048
Gasoline Range Organics (GRO)-C6	-C12 2.8		0.97
Ethyl tert-butyl ether	ND		0.0048
Surrogate	%Rec	Ac	cceptance Limits
Toluene-d8	97	7	70 - 130
1,2-Dichloroethane-d4	113	6	30 - 140

Analytical Data

Client: TRC Solutions Job Number: 720-2895-1

Client Sample ID: SB-2@5'

Lab Sample ID: 720-2895-3

Date Sampled: 03/27/2006 1158 Client Matrix: Solid Date Received: 03/29/2006 1230

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-7157 Instrument ID: Varian 3900E

Preparation: 5030B Lab File ID: c:\varianws\data\200603\03

Dilution: 1.0 Initial Weight/Volume: 5.13 g

Date Analyzed: 03/30/2006 1618 Final Weight/Volume: 10 mL Date Prepared: 03/30/2006 1618

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL 1,2-Dichloroethane ND 0.0049 Benzene ND 0.0049 Ethanol ND 0.49 Ethylbenzene ND 0.0049 MTBE ND 0.0049 TAME ND 0.0049 Toluene ND 0.0049 Xylenes, Total ND 0.0097 TBA ND 0.0097 DIPE ND 0.0049 **EDB** ND 0.0049 Gasoline Range Organics (GRO)-C6-C12 ND 0.97 Ethyl tert-butyl ether ND 0.0049 Surrogate %Rec Acceptance Limits Toluene-d8 95 70 - 130 1,2-Dichloroethane-d4 107 60 - 140

Client: TRC Solutions Job Number: 720-2895-1

Client Sample ID: SB-2@9'

Lab Sample ID: 720-2895-4

Date Sampled: 03/27/2006 1206 Client Matrix: Solid Date Received: 03/29/2006 1230

8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Preparation: 5030B

Dilution: 1.0

Date Analyzed: 03/30/2006 1640 Date Prepared: 03/30/2006 1640 Analysis Batch: 720-7157 Instrument ID: Varian 3900E

Lab File ID:

c:\varianws\data\200603\03

Analyte	ryWt Corrected: N Result (mg/Kg) Qua	lifier RL
1,2-Dichloroethane	ND	0.0047
Benzene	ND	0.0047
Ethanol	ND	0.47
Ethylbenzene	ND	0.0047
MTBE	ND	0.0047
TAME	ND	0.0047
Toluene	ND	0.0047
Xylenes, Total	ND	0.0093
TBA	ND	0.0093
DIPE	ND	0.0047
EDB	ND	0.0047
Gasoline Range Organics (GRO)-C6	-C12 ND	0.93
Ethyl tert-butyl ether	ND	0.0047
Surrogate	%Rec	Acceptance Limits
Toluene-d8	103	70 - 130
1,2-Dichloroethane-d4	103	60 - 140

Client: TRC Solutions Job Number: 720-2895-1

Client Sample ID: SB-3@14'

Lab Sample ID: Client Matrix:

720-2895-5 Solid

Date Sampled: 03/27/2006 1505

Date Received: 03/29/2006 1230

8260B Volatile Organic Compounds by GC/MS

Method:

8260B

Analysis Batch: 720-7157

Instrument ID: Varian 3900E

Preparation:

5030B

Lab File ID:

c:\varianws\data\200603\03

Dilution:

1.0

Initial Weight/Volume: 5.13 g

Date Analyzed: Date Prepared:

03/30/2006 1701 03/30/2006 1701 Final Weight/Volume: 10 mL

Analyte Dr	yWt Corrected: N Result (mg/Kg)	Qualifier	RL
1,2-Dichloroethane	ND		0.0049
Benzene	0.11		0.0049
Ethanol	ND		0.49
Ethylbenzene	0.061		0.0049
MTBE	0.64		0.0049
TAME	ND		0.0049
Toluene	ND		0.0049
Xylenes, Total	0.055		0.0097
TBA	0.19		0.0097
DIPE	ND		0.0049
EDB	ND		0.0049
Gasoline Range Organics (GRO)-C6-	C12 1.3		0.97
Ethyl tert-butyl ether	ND		0.0049
Surrogate	%Rec	Accept	ance Limits
Toluene-d8	95	70 -	130
1,2-Dichloroethane-d4	102	60 - 1	57575

Client: TRC Solutions

Job Number: 720-2895-1

Client Sample ID:

SB-3@16'

Lab Sample ID:

720-2895-6

Client Matrix:

Solid

Date Sampled: 03/27/2006 1515

Date Received: 03/29/2006 1230

8260B Volatile Organic Compounds by GC/MS

Method:

8260B

Analysis Batch: 720-7241

Instrument ID: Varian 3900E

Preparation:

5030B-Medium

Prep Batch: 720-7251

Lab File ID:

c:\varianws\data\200603\03

Dilution:

2000

Date Analyzed: 03/31/2006 1607

Date Prepared: 03/30/2006 1445

Analyte Dr	yWt Corrected: N	Result (mg/Kg)	Qualifier	RL
1,2-Dichloroethane		ND		9.7
Benzene		ND		9.7
Ethanol		ND		190
Ethylbenzene		86		9.7
MTBE		ND		9.7
TAME		ND		9.7
Toluene		53		9.7
Xylenes, Total		420		19
TBA		ND		19
DIPE		ND		9.7
EDB		ND		9.7
Gasoline Range Organics (GRO)-C6-	C12	6100		490
Ethyl tert-butyl ether		ND		9.7
Surrogate		%Rec		Acceptance Limits
Toluene-d8		103		50 - 130
1.2-Dichloroethane-d4		88		60 - 140

Client: TRC Solutions Job Number: 720-2895-1

Client Sample ID: SB-4@5'

 Lab Sample ID:
 720-2895-7
 Date Sampled:
 03/28/2006 0828

 Client Matrix:
 Solid
 Date Received:
 03/29/2006 1230

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-7157 Instrument ID: Varian 3900E

Preparation: 5030B Lab File ID: c:\varianws\data\200603\03

Dilution: 1.0 Initial Weight/Volume: 5.37 g

Date Analyzed: 03/30/2006 1722 Final Weight/Volume: 10 mL Date Prepared: 03/30/2006 1722

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL 1,2-Dichloroethane ND 0.0047 Benzene ND 0.0047 Ethanol ND 0.47 Ethylbenzene ND 0.0047 MTBE ND 0.0047 TAME ND 0.0047 Toluene ND 0.0047 Xylenes, Total ND 0.0093 TBA ND 0.0093 DIPE ND 0.0047 EDB ND 0.0047 Gasoline Range Organics (GRO)-C6-C12 ND 0.93 Ethyl tert-butyl ether ND 0.0047 Surrogate %Rec Acceptance Limits Toluene-d8 85 70 - 130 1,2-Dichloroethane-d4 102 60 - 140

03/28/2006 0903

Client: TRC Solutions Job Number: 720-2895-1

Client Sample ID: SB-4@15'

Method:

Lab Sample ID: 720-2895-8 Date Sampled: Client Matrix: Solid Date Received: 03/29/2006 1230

8260B Volatile Organic Compounds by GC/MS

Analysis Batch: 720-7157 Instrument ID: Varian 3900E

Preparation: 5030B Lab File ID: c:\varianws\data\200603\03

Dilution: 1.0 Initial Weight/Volume: 5.43 g Date Analyzed: 03/30/2006 1744 Final Weight/Volume: 10 mL

Date Prepared: 03/30/2006 1744

8260B

Analyte Dry	Wt Corrected: N	Result (mg/Kg)	Qualifier	RL
1,2-Dichloroethane		ND		0.0046
Benzene		ND		0.0046
Ethanol		ND		0.46
Ethylbenzene		ND		0.0046
MTBE		ND		0.0046
TAME		ND		0.0046
Γoluene		ND		0.0046
Kylenes, Total		ND		0.0092
ГВА		ND		0.0092
DIPE		ND		0.0046
DB		ND		0.0046
Gasoline Range Organics (GRO)-C6-C	12	ND		0.92
Ethyl tert-butyl ether		ND		0.0046
Surrogate		%Rec		Acceptance Limits
Toluene-d8		104		70 - 130
1,2-Dichloroethane-d4		102		60 - 140

Client: TRC Solutions Job Number: 720-2895-1

Client Sample ID: SB-5@9'

 Lab Sample ID:
 720-2895-9
 Date Sampled:
 03/28/2006 1046

 Client Matrix:
 Solid
 Date Received:
 03/29/2006 1230

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-7157 Instrument ID: Varian 3900E

Preparation: 5030B Lab File ID: c:\varianws\data\200603\03

Dilution: 1.0 Initial Weight/Volume: 5.38 g

Date Analyzed: 03/30/2006 1805 Final Weight/Volume: 10 mL Date Prepared: 03/30/2006 1805

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL 1,2-Dichloroethane ND 0.0046 Benzene ND 0.0046 Ethanol ND 0.46 Ethylbenzene ND 0.0046 MTBE 0.0046 ND TAME 0.0046 ND Toluene ND 0.0046 Xylenes, Total ND 0.0093 TBA ND 0.0093 DIPE ND 0.0046 EDB ND 0.0046 Gasoline Range Organics (GRO)-C6-C12 0.93 ND Ethyl tert-butyl ether ND 0.0046 Surrogate %Rec Acceptance Limits Toluene-d8 100 70 - 1301,2-Dichloroethane-d4 103 60 - 140

Client: TRC Solutions

Job Number: 720-2895-1

Client Sample ID:

SB-5@13'

Lab Sample ID:

720-2895-10

Client Matrix:

Solid

Date Sampled:

03/28/2006 1046

Date Received: 03/29/2006 1230

8260B Volatile Organic Compounds by GC/MS

Method:

8260B

Analysis Batch: 720-7157

Instrument ID: Varian 3900E

Preparation:

5030B

Lab File ID:

c:\varianws\data\200603\03

Dilution:

1.0

Date Analyzed:

03/30/2006 1827

Initial Weight/Volume: 5.35 g Final Weight/Volume: 10 mL

Date Prepared: 03/30/2006 1827

Analyte Dr.	/Wt Corrected: N	Result (mg/Kg)	Qualifier	RL
1,2-Dichloroethane		ND		0.0047
Benzene		ND		0.0047
Ethanol		ND		0.47
Ethylbenzene		ND		0.0047
MTBE		ND		0.0047
TAME		ND		0.0047
Toluene		ND		0.0047
Xylenes, Total		ND		0.0093
TBA		ND		0.0093
DIPE		ND		0.0047
EDB		ND		0.0047
Gasoline Range Organics (GRO)-C6-	C12	ND		0.93
Ethyl tert-butyl ether		ND		0.0047
Surrogate		%Rec		Acceptance Limits
Toluene-d8		91		70 - 130
1,2-Dichloroethane-d4		104		60 - 140

Client: TRC Solutions

Job Number: 720-2895-1

Client Sample ID:

SB-1W

Lab Sample ID:

720-2895-11

Client Matrix:

Water

Date Sampled: 03/27/2006 1045

Date Received: 03/29/2006 1230

8260B Volatile Organic Compounds by GC/MS

Method:

8260B

Analysis Batch: 720-7192

Instrument ID: Varian 3900A

73 - 130

Preparation:

5030B

Lab File ID:

c:\saturnws\data\200603\03

Dilution: Date Analyzed: 03/30/2006 2058

1.0

Final Weight/Volume: 10 mL

Initial Weight/Volume: 10 mL

1,2-Dichloroethane-d4

Date Prepared: 03/30/2006 2058

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	11		0.50
Ethanol	ND		100
Ethylbenzene	ND		0.50
MTBE	130		0.50
TAME	ND	*	0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	28		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	120		50
Ethyl tert-butyl ether	ND		0.50
Surrogate	%Rec		Acceptance Limits
Toluene-d8	100	Control of the Contro	77 - 121

122

Client: TRC Solutions

Job Number: 720-2895-1

Client Sample ID:

SB-2W

Lab Sample ID:

720-2895-12

Client Matrix:

Water

Date Sampled: 03/27/2006 1336

Date Received: 03/29/2006 1230

8260B Volatile Organic Compounds by GC/MS

Method:

8260B

Analysis Batch: 720-7192

Instrument ID: Varian 3900A

Preparation:

5030B

Dilution:

1.0

Lab File ID:

c:\saturnws\data\200603\03

Date Analyzed: 03/30/2006 2121

Date Prepared: 03/30/2006 2121

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		100
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND	*	0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50
Surrogate	%Rec		Acceptance Limits
Toluene-d8	102		77 - 121
1,2-Dichloroethane-d4	123		73 - 130

Client: TRC Solutions

Job Number: 720-2895-1

Client Sample ID:

SB-3W

Lab Sample ID:

720-2895-13

Client Matrix:

Water

Date Sampled:

03/27/2006 1600

Date Received: 03/29/2006 1230

8260B Volatile Organic Compounds by GC/MS

Method:

8260B

Analysis Batch: 720-7192

Instrument ID: Varian 3900A

Preparation:

5030B

Dilution:

1.0

Lab File ID:

c:\saturnws\data\200603\03

Final Weight/Volume:

Initial Weight/Volume: 10 mL 10 mL

Date Analyzed: Date Prepared: 03/30/2006 2227 03/30/2006 2227

RL Analyte Result (ug/L) Qualifier Ethanol ND 100 Surrogate %Rec Acceptance Limits Toluene-d8 100 77 - 121 1,2-Dichloroethane-d4 73 - 130 126

Client: TRC Solutions

Job Number: 720-2895-1

Client Sample ID:

SB-3W

Lab Sample ID:

720-2895-13

Client Matrix:

Water

Date Sampled:

03/27/2006 1600

Date Received: 03/29/2006 1230

8260B Volatile Organic Compounds by GC/MS

Method:

8260B

Analysis Batch: 720-7235

Instrument ID: Varian 3900C

Preparation:

5030B

Lab File ID:

c:\saturnws\data\200603\03

Dilution:

10

Date Analyzed:

03/31/2006 1935

Initial Weight/Volume: 10 mL Final Weight/Volume: 10 mL

Date Prepared:

03/31/2006 1935

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		5.0
Benzene	510		5.0
Ethylbenzene	470		5.0
MTBE	340		5.0
TAME	ND		5.0
Toluene	1400		5.0
Xylenes, Total	2600		10
TBA	57		50
DIPE	ND		10
EDB	ND		5.0
Gasoline Range Organics (GRO)-C6-C12	13000		500
Ethyl tert-butyl ether	ND		5.0
Surrogate	%Rec		Acceptance Limits
Toluene-d8	99		77 - 121
1,2-Dichloroethane-d4	102		73 - 130

Client: TRC Solutions Job Number: 720-2895-1

Client Sample ID: SB-4W

 Lab Sample ID:
 720-2895-14
 Date Sampled:
 03/28/2006 0935

 Client Matrix:
 Water
 Date Received:
 03/29/2006 1230

8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Preparation: 5030B

Dilution: 1.0

Date Analyzed: 03/31/2006 1748 Date Prepared: 03/31/2006 1748 Analysis Batch: 720-7235 Instrument ID: Varian 3900C

Lab File ID: c:\saturnws\data\200603\03

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		100
Ethylbenzene	ND		0.50
MTBE	3.4		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50
Surrogate	%Rec		Acceptance Limits
Toluene-d8	99		77 - 121
1,2-Dichloroethane-d4	110		73 - 130

Client: TRC Solutions

Job Number: 720-2895-1

Client Sample ID:

SB-5W

Lab Sample ID:

720-2895-15

Client Matrix:

Water

Date Sampled: 03/28/2006 1150

Date Received: 03/29/2006 1230

8260B Volatile Organic Compounds by GC/MS

Method:

8260B

Analysis Batch: 720-7235

Instrument ID: Varian 3900C

73 - 130

Preparation:

5030B

Dilution:

1.0

Lab File ID:

c:\saturnws\data\200603\03

1,2-Dichloroethane-d4

Initial Weight/Volume: 10 mL Final Weight/Volume: 10 mL

Date Analyzed: 03/31/2006 1815

Date Prepared: 03/31/2006 1815

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	44		0.50
Ethanol	ND	*	100
Ethylbenzene	63		0.50
MTBE	53		0.50
TAME	ND		0.50
Toluene	1.2		0.50
Xylenes, Total	30		1.0
TBA	17		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	3000		50
Ethyl tert-butyl ether	ND		0.50
Surrogate	%Rec		Acceptance Limits
Toluene-d8	98		77 - 121

112

Client: TRC Solutions

Job Number: 720-2895-1

Client Sample ID:

COMP

Lab Sample ID:

720-2895-20

Client Matrix:

Solid

Date Sampled:

03/28/2006 1250

Date Received: 03/29/2006 1230

8260B Volatile Organic Compounds by GC/MS

Method:

8260B

Analysis Batch: 720-7157

Instrument ID: Varian 3900E

Preparation:

5030B

Lab File ID:

c:\varianws\data\200603\03

Dilution:

1.0

Date Analyzed:

03/30/2006 1848

Initial Weight/Volume: 5.28 g Final Weight/Volume: 10 mL

Date Prepared: 03/30/2006 1848

Analyte Dry	/Wt Corrected: N	Result (mg/Kg)	Qualifier	RL
1,2-Dichloroethane		ND		0.0047
Benzene		ND		0.0047
Ethanol		ND		0.47
Ethylbenzene		0.0051		0.0047
MTBE		0.037		0.0047
TAME		ND		0.0047
Toluene		0.013		0.0047
Xylenes, Total		0.023		0.0095
TBA		0.073		0.0095
DIPE		ND		0.0047
EDB		ND		0.0047
Gasoline Range Organics (GRO)-C6-0	C12	ND		0.95
Ethyl tert-butyl ether		ND		0.0047
Surrogate		%Rec		Acceptance Limits
Toluene-d8		95		70 - 130
1,2-Dichloroethane-d4		107		60 - 140

Client: TRC Solutions Job Number: 720-2895-1

Client Sample ID: COMP

 Lab Sample ID:
 720-2895-20
 Date Sampled:
 03/28/2006 1250

 Client Matrix:
 Solid
 Date Received:
 03/29/2006 1230

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-7187 Instrument ID:

 Method:
 6010B
 Analysis Batch: 720-7187
 Instrument ID:
 Varian ICP

 Preparation:
 3050B
 Prep Batch: 720-7172
 Lab File ID:
 N/A

 Dilution:
 1.0
 Initial Weight/Volume:
 1.01 g

 Dilution:
 1.0
 Initial Weight/Volume:
 1.01 g

 Date Analyzed:
 03/31/2006 1414
 Final Weight/Volume:
 50 mL

 Date Prepared:
 03/31/2006 0635

 Analyte
 DryWt Corrected: N
 Result (mg/Kg)
 Qualifier
 RL

 Lead
 15
 0.99

DATA REPORTING QUALIFIERS

Client: TRC Solutions

Job Number: 720-2895-1

Lab Section	Qualifier	Description
GC/MS VOA		
	*	LCS, LCSD, MS, MSD, MD, or Surrogate exceeds the control limits

Client: TRC Solutions

Job Number: 720-2895-1

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
GC/MS VOA	acceptant and a second of the			
Analysis Batch:720-7	157			
LCS 720-7157/5	Lab Control Spike	Solid	8260B	
CSD 720-7157/4	Lab Control Spike Duplicate	Solid	8260B	
MB 720-7157/6	Method Blank	Solid	8260B	
720-2642-A-14 MS	Matrix Spike	Solid	8260B	
20-2642-A-14 MSD	Matrix Spike Duplicate	Solid	8260B	
720-2895-1	SB-1@5'	Solid	8260B	
720-2895-2	SB-1@9'	Solid	8260B	
720-2895-3	SB-2@5'	Solid	8260B	
720-2895-4	SB-2@9'	Solid	8260B	
720-2895-5	SB-3@14'	Solid	8260B	
720-2895-7	SB-4@5'	Solid	8260B	
720-2895-8	SB-4@15'	Solid	8260B	
720-2895-9	SB-5@9'	Solid	8260B	
720-2895-10	SB-5@13'	Solid	8260B	
720-2895-20	COMP	Solid	8260B	
Analysis Batch:720-7	192			
CS 720-7192/7	Lab Control Spike	Water	8260B	
.CSD 720-7192/6	Lab Control Spike Duplicate	Water	8260B	
MB 720-7192/8	Method Blank	Water	8260B	
20-2895-11	SB-1W	Water	8260B	
20-2895-12	SB-2W	Water	8260B	
720-2895-12MS	Matrix Spike	Water	8260B	
720-2895-12MSD	Matrix Spike Duplicate	Water	8260B	
720-2895-13	SB-3W	Water	8260B	
Analysis Batch:720-72	235			
CS 720-7235/19	Lab Control Spike	Water	8260B	
.CSD 720-7235/18	Lab Control Spike Duplicate	Water	8260B	
ИВ 720-7235/20	Method Blank	Water	8260B	
20-2895-13	SB-3W	Water	8260B	
20-2895-14	SB-4W	Water	8260B	
20-2895-15	SB-5W	Water	8260B	
20-2903-A-1 MS	Matrix Spike	Water	8260B	
20-2903-A-1 MSD	Matrix Spike Duplicate	Water	8260B	
Prep Batch: 720-7251				
.CS 720-7251/2-A	Lab Control Spike	Solid	5030B	
CSD 720-7251/3-A	Lab Control Spike Duplicate	Solid	5030B	
ИВ 720-7251/1-A	Method Blank	Solid	5030B	
20-2895-6	SB-3@16'	Solid	5030B	

Client: TRC Solutions

Job Number: 720-2895-1

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
GC/MS VOA				
Analysis Batch:720-73	313			
LCS 720-7313/15	Lab Control Spike	Solid	8260B	
LCSD 720-7313/14	Lab Control Spike Duplicate	Solid	8260B	
MB 720-7313/16	Method Blank	Solid	8260B	
720-2917-A-22 MS	Matrix Spike	Solid	8260B	
720-2917-A-22 MSD	Matrix Spike Duplicate	Solid	8260B	
Analysis Batch:720-72	241			
LCS 720-7251/2-A	Lab Control Spike	Solid	8260B	720-7251
LCSD 720-7251/3-A	Lab Control Spike Duplicate	Solid	8260B	720-7251
MB 720-7251/1-A	Method Blank	Solid	8260B	720-7251
720-2895-6	SB-3@16'	Solid	8260B	720-7251
Metals				
Prep Batch: 720-7172				
LCS 720-7172/2-A	Lab Control Spike	Solid	3050B	
LCSD 720-7172/3-A	Lab Control Spike Duplicate	Solid	3050B	
MB 720-7172/1-A	Method Blank	Solid	3050B	
720-2874-A-1-B MS	Matrix Spike	Solid	3050B	
720-2874-A-1-C MSD	Matrix Spike Duplicate	Solid	3050B	
720-2895-20	COMP	Solid	3050B	
Analysis Batch:720-71	87			
LCS 720-7172/2-A	Lab Control Spike	Solid	6010B	720-7172
LCSD 720-7172/3-A	Lab Control Spike Duplicate	Solid	6010B	720-7172
MB 720-7172/1-A	Method Blank	Solid	6010B	720-7172
720-2874-A-1-B MS	Matrix Spike	Solid	6010B	720-7172
720-2874-A-1-C MSD	Matrix Spike Duplicate	Solid	6010B	720-7172
720-2895-20	COMP	Solid	6010B	720-7172

Client: TRC Solutions

Job Number: 720-2895-1

Method Blank - Batch: 720-7157

Method: 8260B Preparation: 5030B

Lab Sample ID: MB 720-7157/6

Analysis Batch: 720-7157

Instrument ID: Varian 3900E

Client Matrix: Solid

Prep Batch: N/A

Lab File ID: c:\varianws\data\200603\03

Dilution: 1.0

Units: mg/Kg

Initial Weight/Volume: 5 g Final Weight/Volume: 10 mL

Date Analyzed: 03/30/2006 1132 Date Prepared: 03/30/2006 1132

Analyte	Result	Qual	RL
1,2-Dichloroethane	ND		0.0050
Benzene	ND		0.0050
Ethanol	ND		0.50
Ethylbenzene	ND		0.0050
MTBE	ND		0.0050
TAME	ND		0.0050
Toluene	ND		0.0050
Xylenes, Total	ND		0.010
TBA	ND		0.010
DIPE	ND		0.0050
EDB	ND		0.0050
Gasoline Range Organics (GRO)-C6-C12	ND		1.0
Ethyl tert-butyl ether	ND		0.0050
Surrogate	% Rec	Acceptance Limits	
Toluene-d8	96	70 - 130	
1,2-Dichloroethane-d4	101	60 - 140	

Client: TRC Solutions

Job Number: 720-2895-1

Laboratory Control/

Laboratory Control Duplicate Recovery Report - Batch: 720-7157

Method: 8260B

Preparation: 5030B

LCS Lab Sample ID: LCS 720-7157/5

Client Matrix: Dilution:

Solid

1.0

Date Prepared: 03/30/2006 1049

Date Analyzed: 03/30/2006 1049

Analysis Batch: 720-7157

Prep Batch: N/A

Units: mg/Kg

Instrument ID: Varian 3900E

Lab File ID:

c:\varianws\data\200603\03

Initial Weight/Volume: 5 g Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-7157/4 Client Matrix:

Solid

Dilution: Date Analyzed: Date Prepared:

1.0

03/30/2006 1110 03/30/2006 1110

Analysis Batch: 720-7157

Prep Batch: N/A Units: mg/Kg

Instrument ID:

Varian 3900E

Lab File ID: c:\varianws\data\200603\033

Initial Weight/Volume: 5 g

Final Weight/Volume: 10 mL

% Rec. Analyte LCS LCSD Limit RPD RPD Limit LCS Qual LCSD Qual Benzene 108 69 - 129 11 20 MTBE 100 89 65 - 165 11 20 Toluene 119 102 70 - 130 15 20 Surrogate LCS % Rec LCSD % Rec Acceptance Limits Toluene-d8 111 104 70 - 130 1,2-Dichloroethane-d4 97 100 60 - 140

Client: TRC Solutions

Job Number: 720-2895-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-7157

Method: 8260B

Preparation: 5030B

MS Lab Sample ID: 720-2642-A-14 MS

Analysis Batch: 720-7157

Instrument ID: Varian 3900E

Lab File ID: c:\varianws\data\200603\(

Initial Weight/Volume: 5.37 g Final Weight/Volume: 10 mL

Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/30/2006 1227
Date Prepared: 03/30/2006 1227

MSD Lab Sample ID: 720-2642-A-14 MSD Analysis Batch: 720-7157

Instrument ID: Varian 3900E

Client Matrix: Solid

Lab File ID: c:\varianws\data\200603\03

Dilution:

1.0

Prep Batch: N/A

Prep Batch: N/A

Date Analyzed: 03/30/2006 1249 Date Prepared: 03/30/2006 1249

	%	Rec.				
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Benzene	76	86	69 - 129	10	20	
MTBE	80	82	65 - 165	1	20	
Toluene	91	97	70 - 130	5	20	
Surrogate		MS % Rec MSD		% Rec	Acce	eptance Limits
Toluene-d8		108	99		70	0 - 130
1,2-Dichloroethane-d4		98	99		60	0 - 140

Client: TRC Solutions

Job Number: 720-2895-1

Method Blank - Batch: 720-7192

Method: 8260B Preparation: 5030B

Lab Sample ID: MB 720-7192/8

Client Matrix: Water 1.0

Dilution: Date Analyzed: 03/30/2006 1859

Date Prepared: 03/30/2006 1859

Analysis Batch: 720-7192

Prep Batch: N/A

Units: ug/L

Instrument ID: Varian 3900A

Lab File ID: c:\saturnws\data\200603\03

Initial Weight/Volume: 10 mL

Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		100
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50
Surrogate	% Rec	Acceptance L	imits
Toluene-d8	101	77 - 121	
1,2-Dichloroethane-d4	126	73 - 130	

Client: TRC Solutions

Job Number: 720-2895-1

Laboratory Control/

Laboratory Control Duplicate Recovery Report - Batch: 720-7192

Method: 8260B Preparation: 5030B

LCS Lab Sample ID: LCS 720-7192/7

Client Matrix: Water Dilution:

Date Analyzed: 03/30/2006 1921

1.0

Date Prepared: 03/30/2006 1921

Analysis Batch: 720-7192

Prep Batch: N/A

Units: ug/L

Instrument ID: Varian 3900A

Lab File ID:

c:\saturnws\data\200603\0:

Initial Weight/Volume: 10 mL Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-7192/6

Client Matrix: Water Dilution:

1.0

Date Analyzed: 03/30/2006 1837

Date Prepared: 03/30/2006 1837

Analysis Batch: 720-7192

Prep Batch: N/A

Units: ug/L

Instrument ID: Varian 3900A

Lab File ID: c:\saturnws\data\200603\033

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Benzene	91	97	69 - 129	6	25		
Ethanol	101	92	60 - 120	9	25		
Ethylbenzene	93	92	60 - 120	1	25		
MTBE	95	109	65 - 165	13	25		
TAME	105	121	60 - 120	14	25		*
Toluene	98	105	70 - 130	8	25		
TBA	98	106	60 - 120	8	25		
DIPE	102	109	60 - 120	7	25		
Surrogate	LCS % Rec		LCSD %	Rec	Accep	tance Limits	
Toluene-d8	1	00	101		7	7 - 121	
1,2-Dichloroethane-d4	1	13	119		7:	3 - 130	

Client: TRC Solutions

Job Number: 720-2895-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-7192

Method: 8260B

Preparation: 5030B

MS Lab Sample ID: 720-2895-12

Client Matrix: Water

Analysis Batch: 720-7192

Instrument ID: Varian 3900A

Lab File ID: c:\saturnws\data\200603\l

Initial Weight/Volume: 10 mL

Dilution: 1.0
Date Analyzed: 03/30/2006 2143
Date Prepared: 03/30/2006 2143

Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-2895-12

Analysis Batch: 720-7192

Instrument ID: Varian 3900A

Client Matrix: Water

Prep Batch: N/A

Dilution:

1.0

Prep Batch: N/A

Lab File ID: c:\saturnws\data\200603\03 Initial Weight/Volume: 10 mL

Date Analyzed: 03/30/2006 2205 Date Prepared: 03/30/2006 2205

Final Weight/Volume: 10 mL

%					
MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
74	86	69 - 129	15	20	
105	98	60 - 120	8	20	
76	85	60 - 120	12	20	
93	99	65 - 165	7	20	
94	105	60 - 120	11	20	
82	93	70 - 130	13	20	
73	88	60 - 120	18	20	
98	105	60 - 120	7	20	
MS % Rec		MSD 9	% Rec	Acce	ptance Limits
	100	99		77	7 - 121
	123	117		73	3 - 130
	MS 74 105 76 93 94 82 73	74 86 105 98 76 85 93 99 94 105 82 93 73 88 98 105 MS % Rec	MS MSD Limit 74 86 69 - 129 105 98 60 - 120 76 85 60 - 120 93 99 65 - 165 94 105 60 - 120 82 93 70 - 130 73 88 60 - 120 98 105 60 - 120 MS % Rec MSD 9	MS MSD Limit RPD 74 86 69 - 129 15 105 98 60 - 120 8 76 85 60 - 120 12 93 99 65 - 165 7 94 105 60 - 120 11 82 93 70 - 130 13 73 88 60 - 120 18 98 105 60 - 120 7 MS % Rec MSD % Rec	MS MSD Limit RPD RPD Limit 74 86 69 - 129 15 20 105 98 60 - 120 8 20 76 85 60 - 120 12 20 93 99 65 - 165 7 20 94 105 60 - 120 11 20 82 93 70 - 130 13 20 73 88 60 - 120 18 20 98 105 60 - 120 7 20 MS % Rec MSD % Rec Acce

Job Number: 720-2895-1

Client: TRC Solutions

Method Blank - Batch: 720-7235

Method: 8260B Preparation: 5030B

Lab Sample ID: MB 720-7235/20

Client Matrix: Water

Dilution: 1.0

1.0

Date Analyzed: 03/31/2006 1152 Date Prepared: 03/31/2006 1152 Analysis Batch: 720-7235

Prep Batch: N/A

Units: ug/L

Instrument ID: Varian 3900C

Lab File ID: c:\saturnws\data\200603\03

Analyte	Result	Qual	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		100
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50
Surrogate	% Rec	Acceptance Limit	is
Toluene-d8	99	77 - 121	
1,2-Dichloroethane-d4	101	73 - 130	

Client: TRC Solutions

Job Number: 720-2895-1

Laboratory Control/

Laboratory Control Duplicate Recovery Report - Batch: 720-7235

Method: 8260B

Preparation: 5030B

LCS Lab Sample ID: LCS 720-7235/19

Client Matrix: Water

Dilution: 1.0
Date Analyzed: 03/31/2006 1014

Date Prepared: 03/31/2006 1014

Analysis Batch: 720-7235

Prep Batch: N/A

Units: ug/L

Instrument ID: Varian 3900C

Lab File ID: c:\saturnws\data\200603\00

Initial Weight/Volume: 10 mL

Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-7235/18

Client Matrix: Water

Dilution: Date Analyzed: 03/31/2006 1041

1.0

Date Prepared: 03/31/2006 1041

Analysis Batch: 720-7235

Prep Batch: N/A

Units: ug/L

Instrument ID: Varian 3900C

Lab File ID: c:\saturnws\data\200603\033

Initial Weight/Volume: 10 mL

Final Weight/Volume: 10 mL

	% Rec.							
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual	
Benzene	90	97	69 - 129	8	25			
Ethanol	118	133	60 - 120	12	25			
Ethylbenzene	83	82	60 - 120	2	25			
MTBE	85	93	65 - 165	9	25			
TAME	90	100	60 - 120	11	25			
Toluene	89	98	70 - 130	9	25			
TBA	95	104	60 - 120	9	25			
DIPE	86	96	60 - 120	11	25			
Surrogate	LCS % Rec		LCSD %	Rec	Accep	tance Limits		
Toluene-d8	1	00	101		7	7 - 121		
1,2-Dichloroethane-d4	9	3	97		7	3 - 130		

Client: TRC Solutions

Job Number: 720-2895-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-7235

Method: 8260B

MS Lab Sample ID: 720-2903-A-1 MS

Preparation: 5030B

Analysis Batch: 720-7235

Instrument ID: Varian 3900C

Client Matrix: Water

Dilution:

50

Prep Batch: N/A

Lab File ID: c:\saturnws\data\200603\l

Initial Weight/Volume: 10 mL

Date Analyzed: 03/31/2006 1254 Date Prepared: 03/31/2006 1254

Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-2903-A-1 MSD

Analysis Batch: 720-7235

Instrument ID: Varian 3900C

Client Matrix: Water

Lab File ID: c:\saturnws\data\200603\03

Dilution:

50

Prep Batch: N/A

Date Analyzed: 03/31/2006 1321 Date Prepared: 03/31/2006 1321

	9/6						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	70	66	69 - 129	6	20		
Ethanol	96	126	60 - 120	27	20		
Ethylbenzene	72	63	60 - 120	11	20		
MTBE	70	66	65 - 165	2	20		
TAME	81	84	60 - 120	5	20		
Toluene	80	73	70 - 130	9	20		
TBA	96	112	60 - 120	9	20		
DIPE	82	81	60 - 120	0	20		
Surrogate		MS % Rec		% Rec	Acce	ptance Limit	s
Toluene-d8		97	99		7	7 - 121	
1,2-Dichloroethane-d4		93	97		73	3 - 130	

Client: TRC Solutions

Job Number: 720-2895-1

Method Blank - Batch: 720-7251

Method: 8260B Preparation: 5030B

Lab Sample ID: MB 720-7251/1-A

Client Matrix: Solid

Dilution: 200

Date Analyzed: 03/31/2006 1413 Date Prepared: 03/30/2006 1445 Analysis Batch: 720-7241

Prep Batch: 720-7251 Units: mg/Kg Instrument ID: Varian 3900E

Lab File ID: c:\varianws\data\200603\03

Analyte	Result	Qual	RL
1,2-Dichloroethane	ND		1.0
Benzene	ND		1.0
Ethanol	ND		20
Ethylbenzene	ND		1.0
MTBE	ND		1.0
TAME	ND		1.0
Toluene	ND		1.0
Xylenes, Total	ND		2.0
TBA	ND		2.0
DIPE	ND		1.0
EDB	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		1.0
Surrogate	% Rec	Acceptance Limits	
Toluene-d8	97	50 - 130	
1,2-Dichloroethane-d4	115	60 - 140	

Client: TRC Solutions

Job Number: 720-2895-1

Laboratory Control/

Laboratory Control Duplicate Recovery Report - Batch: 720-7251

Method: 8260B

Preparation: 5030B

LCS Lab Sample ID: LCS 720-7251/2-A

Client Matrix: Solid

Dilution: Date Analyzed: 03/31/2006 1504

200

Date Prepared: 03/30/2006 1445

Analysis Batch: 720-7241 Prep Batch: 720-7251

Units: mg/Kg

Instrument ID: Varian 3900E

Lab File ID: c:\varianws\data\200603\03

Initial Weight/Volume: 5 g Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-7251/3-A

Client Matrix: Solid Dilution:

200

Date Analyzed: 03/31/2006 1525 Date Prepared: 03/30/2006 1445

Analysis Batch: 720-7241 Prep Batch: 720-7251

Units: mg/Kg

Instrument ID: Varian 3900E

Lab File ID: c:\varianws\data\200603\033

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	106	97	69 - 129	9	20		
Ethanol	214	145	60 - 150	39	20	*	*
Ethylbenzene	104	102	60 - 120	2	20		
MTBE	100	107	65 - 165	7	20		
TAME	117	113	60 - 120	3	20		
Toluene	114	111	70 - 130	3	20		
TBA	102	110	60 - 120	7	20		
DIPE	106	115	60 - 120	8	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8	118	107	50 - 130
1,2-Dichloroethane-d4	115	111	60 - 140

Client: TRC Solutions Job Number: 720-2895-1

Method Blank - Batch: 720-7313

Method: 8260B Preparation: 5030B

Lab Sample ID: MB 720-7313/16

Client Matrix: Solid

Dilution: 1.0
Date Analyzed: 04/01/2006 1157
Date Prepared: 04/01/2006 1157

Analysis Batch: 720-7313

Prep Batch: N/A Units: mg/Kg Instrument ID: Varian 3900A

Lab File ID: c:\saturnws\data\200604\04

Analyte	Result	Qual	RL
1,2-Dichloroethane	ND		0.0050
Benzene	ND		0.0050
Ethanol	ND		0.50
Ethylbenzene	ND		0.0050
MTBE	ND		0.0050
TAME	ND		0.0050
Toluene	ND		0.0050
Xylenes, Total	ND		0.010
TBA	ND		0.010
DIPE	ND		0.0050
EDB	ND		0.0050
Gasoline Range Organics (GRO)-C6-C12	ND		1.0
Ethyl tert-butyl ether	ND		0.0050
Surrogate	% Rec	Acceptance Lir	mits
Toluene-d8	100	70 - 130	
1,2-Dichloroethane-d4	117	60 - 140	

Client: TRC Solutions Job Number: 720-2895-1

Laboratory Control/

Laboratory Control Duplicate Recovery Report - Batch: 720-7313

Method: 8260B Preparation: 5030B

LCS Lab Sample ID: LCS 720-7313/15

Client Matrix: Solid

Dilution: 1.0
Date Analyzed: 04/01/2006 1113

Date Prepared: 04/01/2006 1113

Analysis Batch: 720-7313

Prep Batch: N/A

Units: mg/Kg

Instrument ID: Varian 3900A

Lab File ID: c:\saturnws\data\200604\04

Initial Weight/Volume: 5 g Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-7313/14

Client Matrix: Solid Dilution:

1.0

Date Prepared: 04/01/2006 1135

Date Analyzed: 04/01/2006 1135

Analysis Batch: 720-7313

Prep Batch: N/A Units: mg/Kg

Instrument ID: Varian 3900A

Lab File ID: c:\saturnws\data\200604\04(

	9	6 Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual	
Benzene	98	88	69 - 129	10	20			
MTBE	113	114	65 - 165	1	20			
Toluene	109	101	70 - 130	7	20			
Surrogate	L	CS % Rec	LCSD %	Rec	Accep	tance Limits		
Toluene-d8	106 101				101 70 - 130			
1,2-Dichloroethane-d4	1	116 122			60 - 140			

Client: TRC Solutions

Job Number: 720-2895-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-7313

Method: 8260B

Preparation: 5030B

MS Lab Sample ID: 720-2917-A-22 MS

Solid

Instrument ID: Varian 3900A

Client Matrix:

Lab File ID: c:\saturnws\data\200604\/

Initial Weight/Volume: 5.04 g

Dilution: 1.0
Date Analyzed: 04/01/2006 1848
Date Prepared: 04/01/2006 1848

Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-2917-A-22 MSD Analysis Batch: 720-7313

Analysis Batch: 720-7313

Instrument ID: Varian 3900A

Client Matrix: Solid

Dilution:

1.0

Prep Batch: N/A

Prep Batch: N/A

Lab File ID: c:\saturnws\data\200604\04 Initial Weight/Volume: 5.05 g

Date Analyzed: 04/01/2006 1910 Date Prepared: 04/01/2006 1910

Final Weight/Volume: 10 mL

	%	Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	90	94	69 - 129	4	20		
MTBE	103	103	65 - 165	0	20		
Toluene	98	96	70 - 130	3	20		
Surrogate		MS % Rec	MSD 9	% Rec	Acce	ptance Limit	S
Toluene-d8		101	98		70 - 130		
1,2-Dichloroethane-d4		117	114		60	0 - 140	

Client: TRC Solutions Job Number: 720-2895-1

Method Blank - Batch: 720-7172 Method: 6010B Preparation: 3050B

Lab Sample ID: MB 720-7172/1-A Analysis Batch: 720-7187 Instrument ID: Varian ICP
Client Matrix: Solid Prep Batch: 720-7172 Lab File ID: N/A
Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

Date Analyzed: 03/31/2006 1327 Final Weight/Volume: 50 mL Date Prepared: 03/31/2006 0635

 Analyte
 Result
 Qual
 RL

 Lead
 ND
 1.0

Laboratory Control/ Method: 6010B
Laboratory Control Duplicate Recovery Report - Batch: 720-7172 Preparation: 3050B

LCS Lab Sample ID: LCS 720-7172/2-A Analysis Batch: 720-7187 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-7172 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 03/31/2006 1330 Final Weight/Volume: 50 mL

Date Prepared: 03/31/2006 0635

LCSD Lab Sample ID: LCSD 720-7172/3-A Analysis Batch: 720-7187 Instrument ID: Varian ICP

 Client Matrix:
 Solid
 Prep Batch: 720-7172
 Lab File ID: N/A

 Dilution:
 1.0
 Units: mg/Kg
 Initial Weight/Volume: 1 g

 Date Analyzed:
 03/31/2006 1334
 Final Weight/Volume: 50 mL

Analyte LCS LCSD Limit RPD RPD Limit LCS Qual LCSD Qual
Lead 98 101 80 - 120 2 20

Date Prepared: 03/31/2006 0635

Client: TRC Solutions Job Number: 720-2895-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-7172

Method: 6010B

Preparation: 3050B

MS Lab Sample ID: 720-2874-A-1-B MS Analysis Batch: 720-7187

Instrument ID: Varian ICP

Prep Batch: 720-7172

Lab File ID: N/A

Client Matrix: Solid
Dilution: 10
Date Analyzed: 03/31/2006 1355
Date Prepared: 03/31/2006 0635

Initial Weight/Volume: 1.00 g Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-2874-A-1-C MSD Analysis Batch: 720-7187

Instrument ID: Varian ICP

Client Matrix: Solid

Prep Batch: 720-7172

Lab File ID: N/A

Dilution:

10

Initial Weight/Volume: 1.01 g Final Weight/Volume: 50 mL

Date Analyzed: 03/31/2006 1359 Date Prepared: 03/31/2006 0635

0/ Doc

Analyte	MS 75	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Lead	100	76	75 - 125	11	20	

STL-San Francisco ConocoPhillips Site Manager: ConocoPhillips Work Order Number 1220 Quarry Lane INVOICE REMITTANCE ADDRESS: 1178TRC007 CONOCOPHILLIPS DATE: 03/29/2006 Attn: Dee Hutchinson Pleasanton, CA 94566 ConocoPhillips Cost Object 3611 South Harbor, Suite 200 (925) 484-1919 (925) 484-1096 Santa Ana, CA, 92704 WNO, 1178, EOI. SAMPLING COMPANY TRCC 3538 TRC ADDRESS: 1590 Solano Way , Suite A Concord, CA 94520 411 W. MacArthur Blvd., Oakland PROJECT CONTACT (Hardcopy or PDF Report to): EDF DELIVERABLE TO (RP or Designee): LAB USE ONLY Keith Woodburne E-MAIL: TELEPHONE: Keith Woodburne (925) 688-2488 kwoodburne@trcso kwoodburne@trcsolutions.com (925)688-0388 (925)688-2488 utions.com CONSULTANT PROJECT NUMBER SAMPLER NAME(S) (Print): REQUESTED ANALYSES 42014208 Jeremy Kearns TURNAROUND TIME (CALENDAR DAYS): ☑ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS FIELD NOTES: 5 Day turn around time SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED Container/Preservative or PID Readings Metals TO 1664 - Total Oil and or Laboratory Notes Please CC: rdunn@trcsolutions on all pdf and edf emails. 9015 - Hydraulic 5010 - LUFT 8260 - TPPH * Field Point name only required if different from Sample ID 8260B -8015m Sample Identification/Field Point rotal I SAMPLING TEMPERATURE ON RECEIPT C NO. OF MATRIX CONT. Name* DATE TIME ONLY X х Х Soil 3/27/06 1008 SB-1 @ 5' Х х х SB-1 @ 9' 3/27/06 1014 Soil X х X 3/27/08 1158 Soil SB-2 @ 5' X Х X 3/27/06 1206 Soil SB-2 @ 9' X х X 3/27/06 1505 Soil SB-3 @ 14' Х X X 3/27/06 1515 Soil SB-3 @ 16' X х X 3/28/06 828 Soil SB-4 @ 5' X х X 3/28/06 903 Soil SB-4 @ 15' X Х Х 3/28/06 1046 Soil SB-5 @ 9' X X X 3/28/06 1046 SB-5 @ 18 Received by: (Signature) Received by: (Signature) Reinquished by: (Signature)

ConocoPhillips Chain Of Custody Record

9/19/03 Revision

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							TPHdE	ТРН	втех	8260B - 8 oyxgenates	8260B-MTBE	- VOCs	8270C - Semi-VOC's	1664 - Total Oil and	8015 - Hydraulic	8270C - PCBs	n)	на	pe					42 of 43
LAB USE	Sample Identific	equired if different from cation/Field Point	Sample I SAMP		MATRIX	NO. OF	8015m	82608	8260B -	- 809	909-1	8260B -	70C	64 - T	115 - H	70C	6010 - LUFT	8260 - TPPH	Total Lead			TEMPE	RATURE ON RECEIPT C'	age 7
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Client: TRC Solutions

Job Number: 720-2895-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-7172

Method: 6010B

MS Lab Sample ID: 720-2874-A-1-B MS

Preparation: 3050B

Client Matrix: Solid

Analysis Batch: 720-7187 Prep Batch: 720-7172

Instrument ID: Varian ICP

Dilution:

10

Lab File ID: N/A

Initial Weight/Volume: 1.00 g

Dilution: 10
Date Analyzed: 03/31/2006 1355
Date Prepared: 03/31/2006 0635

Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-2874-A-1-C MSD Analysis Batch: 720-7187

Instrument ID: Varian ICP

Client Matrix: Solid

Lab File ID: N/A

Dilution:

10

Prep Batch: 720-7172

Initial Weight/Volume: 1.01 g Final Weight/Volume: 50 mL

Date Analyzed: 03/31/2006 1359 Date Prepared: 03/31/2006 0635

	%	Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD	Qual
Lead	100	76	75 - 125	11	20		nerted processors

STL-San Francisco ConocoPhillips Site Manager: ConocoPhillips Work Order Number 1220 Quarry Lane INVOICE REMITTANCE ADDRESS: 1178TRC007 CONOCOPHILLIPS DATE: 03/29/2006 Attn: Dee Hutchinson Pleasanton, CA 94566 ConocoPhillips Cost Object 3611 South Harbor, Suite 200 PAGE: 1 of 2 (925) 484-1919 (925) 484-1096 Santa Ana. CA. 92704 WNO, 1178, FOI SAMPLING COMPANY 3538 TRCC TRC ADDRESS: 1590 Solano Way , Suite A Concord, CA 94520 411 W. MacArthur Blvd., Oakland PROJECT CONTACT (Hardcopy or PDF Report to): EDF DELIVERABLE TO (RP or Designee): Keith Woodburne Keith Woodburne (925) 688-2488 kwoodburne@trcsol TELEPHONE: (925)688-0388 kwoodburne@trcsolutions.com (925)688-2488 utions.com CONSULTANT PROJECT NUMBER SAMPLER NAME(S) (Print): REQUESTED ANALYSES 42014208 Jeremy Kearns TURNAROUND TIME (CALENDAR DAYS): ☑ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS Day turn around time FIELD NOTES: SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED Container/Preservative or PID Readings 8260B - 8 oyxgenates 5010 - LUFT 5 Metals 664 - Total Oil and io. or Laboratory Notes Please CC: rdunn@trcsolutions on all pdf and edf emails. 8260 - TPPH * Field Point name only required if different from Sample ID 8015m 8260B Sample Identification/Field Point rotal L TEMPERATURE ON RECEIPT C SAMPLING MATRIX CONT DATE TIME Name* DNLY х X X 1008 Soil SB-1 @ 5' X X X 3/27/06 1014 Soil SB-1 @ 9' X X X 3/27/08 1158 Soil SB-2 @ 5' X X X 3/27/06 1206 Soil SB-2 @ 9' X X X 3/27/06 1505 Soil SB-3 @ 14' X X X 3/27/06 1515 Soil SB-3 @ 16' X X X 3/28/06 828 Soil SB-4 @ 5' X X X 3/28/06 903 Soil SB-4 @ 15' X X X 3/28/06 1046 Soil SB-5 @ 9' X X 3/28/06 1046 SB-5 @ 18 Received by: (Signature) Received by: (Signature)

ConocoPhillips Chain Of Custody Record

STL-San Francisco ConocoPhillips Work Order Number ConocoPhillips Site Manager: 1220 Quarry Lane INVOICE REMITTANCE ADDRESS 178TRC-007 CONOCOPHILLIPS DATE: 03/29/2006 Attn: Dee Hutchinson Pleasanton, CA 94566 ConocoPhillips Cost Object 3611 South Harbor, Suite 200 (925) 484-1919 (925) 484-1096 1 Santa Ana, CA, 92704 WND. 1178. EO SAMPLING COMPANY: 3538 TRCC TRC ADDRESS: 1590 Solano Way , Suite A Concord, CA 94520 411 W. MacArthur Blvd., Oakland PROJECT CONTACT (Hardcopy or PDF Report to): EDF DELIVERABLE TO (RP or Designee): Keith Woodburne Keith Woodburne (925) 688-2488 kwoodburne@trcso TELEPHONE (925)688-0388 kwoodburne@trcsolutions.com (925)688-2488 utions.com CONSULTANT PROJECT NUMBER SAMPLER NAME(S) (Print): REQUESTED ANALYSES 42014208 Jeremy Keams TURNAROUND TIME (CALENDAR DAYS): ☑ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS FIELD NOTES: 5 Day turn around time SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED Container/Preservative or PID Readings 8260B - 8 oyxgenates 5010 - LUFT 5 Metals 8270C - Semi-VOC's 1664 - Total Oil and 8015 - Hydraulic Oil or Laboratory Notes Please CC: rdunn@trcsolutions on all pdf and edf emails. - TPHd BTEX 8260B - VOCs 8270C - PCBs 8260B - TPHg 8260 - TPPH Lead * Field Point name only required if different from Sample ID 8015m 8260B TEMPERATURE ON RECEIPT O Sample Identification/Field Point USE SAMPLING Cotal NO, OF MATRIX CONT. DATE TIME Name* ONLY 3 voas w/HCI Х X Х 3 3/27/06 1045 G.W. SB-1W 3 yeas w/HCI X Х X G.W. 3 3/27/06 1336 SB-2W 3 yoas w/HCI х X Х G.W. 3 3/27/06 1600 SB-3W 3 yoas w/HCI Х Х Х 3/28/06 935 G.W 3 SB-4W 3 voas w/HCI х х Х 3/28/06 1150 G.W SB-5W X Х Х 3/28/06 1250 Soil COMP Received by: (Signature Received by: (Signature)

ConocoPhillips Chain Of Custody Record

LOGIN SAMPLE RECEIPT CHECK LIST

Client: TRC Solutions

Job Number: 720-2895-1

Login Number: 2895

RGE
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