

June 21, 2004

Mr. Mike Stansifer **BP PIPELINES (NORTH AMERICA), INC.** 502 North West Avenue Levelland, Texas 79336

Subject: Soil Assessment and Analytical Results Saunders Station Lea County, New Mexico



Dear Mr. Stansifer:

BNC Environmental Services, Inc. (BNC) is pleased to submit soil assessment data and analytical results from soil sampling activities conducted for BP Pipelines (North America), Inc. (BP) at the above referenced crude oil release site.

The BP Saunders Station (Site) is located approximately 12 miles west-northwest of Lovington, Lea County, New Mexico. The legal description of the Site is Section 3, T-15-S, R-33-E with GPS coordinates 33° 03.223' N and 103° 35.840' W (FIGURE 1). The Site consists of a tank-battery with two 210-barrel crude oil tanks, one 210-barrel produced water tank and a truck loading facility. The tanks are contained within a 45foot by 90-foot firewall.

A New Mexico Oil Conservation Division (NMOCD) form C-141, Release Notification and Corrective Action was submitted to the agency on April 1, 2004. A crude oil release of approximately 21-barrels occurred on March 3, 2004 at the Site. Twenty-barrels were reported as recovered. A copy of the C-141 Form is attached to this correspondence. The release was the result a tank over-flow and was fully contained within the firewall. BP personnel took corrective action subsequent to the release. Hydrocarbon-impacted soils associated with the crude oil release were excavated by CJR Construction (CJR) personnel and delineated using a backhoe. The vertical and horizontal extents of the excavation were assessed by field personnel using visual observation. Impacted soil was removed from the excavation, spread and tilled outside the firewall location and treated with microblaze to enhance the hydrocarbon remediation effort. The extent of the remedial excavation and the Site details are presented in FIGURE 2.

The New Mexico Oil Conservation Division (NMOCD) has regulatory jurisdiction over oil and gas production operations including pipeline spill/closure in the State of New Mexico. This project was conducted under the regulatory jurisdiction of the NMOCD,

BP Pipeline = 209700 r=fPAC06014552 leng = PACO60 1955532 2135 S. Loop 250 West Midland, Texas 79703 432-686-0086 fax 432-686-0186 www.bnctw.com

which requires that soil impacted by a crude oil spill be remediated in such a manner that the potential for future affects to groundwater or the environment are minimized. The NMOCD hydrocarbon remediation levels are determined by ranking criteria on a site-by-site basis, which is outlined in the NMOCD *Guidelines for Remediation of Spills, Leaks, and Releases,* dated August 13, 1993. The ranking criteria are based on three site characteristics: depth to groundwater, wellhead protection and distance to surface water.

Information provided by Mr. Larry Johnson with the NMOCD indicated that the depth-togroundwater at the Site is between 50 and 100 feet. Based on these Site characteristics and associated NMOCD ranking criteria presented in the table below, the following hydrocarbon remediation levels apply at the Site: benzene- 10 ppm, BTEX- 50 ppm and TPH- 1,000 ppm.

CHARACTERISTIC	SELECTION	SCORE
Depth to Groundwater	> 50 feet <100 feet	10
Wellhead Protection Area	>1000 feet	0
Distance to Surface Water	>1000 feet	0

Total Ranking Score = 10

Confirmation soil sampling collection events were conducted by BNC personnel on three separate occasions. Each soil sample was placed into a laboratory-supplied soil jar equipped with a Teflon-lined lid and placed on ice in an insulated cooler. These samples were submitted to TraceAnalysis, Inc. (Trace) in Lubbock, Texas for analysis of total petroleum hydrocarbons (TPH) diesel-range organics (DRO) and gasoline-range organics (GRO) by EPA Method 8015 modified and analysis of benzene, toluene, ethylbenzene and xylene (BTEX) by EPA method 8021B. The submitted coolers were sealed for shipment and proper chain-of-custody documentation accompanied the samples to the laboratory. The certified analytical reports are provided as an attachment.

On March 24, 2004, BNC personnel conducted a Site visit to collect confirmation soil samples from the remedial excavation and tilled-soils. Three grab samples were collected from the bottom of the excavation (E1, E2 and E3) and one ten-point composite sample was collected from the tilled-soils (SMA/SMB). In addition to TPH and BTEX, the soil sample SMA/SMB collected from the tilled-soil was further analyzed for reactivity, corrosivity and ignitability (RCI). Soil samples E2 and E3 exhibited TPH (DRO) concentrations that exceeded NMOCD hydrocarbon remediation levels (3,270 mg/Kg and 2,140 mg/Kg, respectively). The BTEX and RCI analytical results were below regulatory guidelines. The tilled soil sample (SMA/SMA) exhibited TPH and BTEX concentrations below regulatory limits and was non-reactive, non-corrosive, and non-ignitable.

On May 7, 2004, BNC conducted an additional confirmation soil sampling event. Activities conducted by CJR subsequent to the previous sampling event included overexcavation of the release Site. Two grab samples were collected from the bottom of the remedial excavation at locations with TPH concentrations previously above regulatory levels and submitted to the laboratory for BTEX and TPH (DRO/GRO) analysis (SE and EE). The soil sample SE exhibited a TPH (DRO) concentration that exceeded NMOCD hydrocarbon remediation levels (1,180 mg/Kg). The BTEX and TPH (GRO) analytical results were below regulatory guidelines at the EE location.

BNC conducted the third and final confirmation soil sampling event on May 27, 2004 that was witnessed by NMOCD District personnel, Larry Johnson and Paul Sheely. Activities conducted by CJR subsequent to the previous sampling event included a microblaze application to enhance the remediation effort. One grab sample was collected from the bottom of the remedial excavation (bedrock) at the location that previously exhibited TPH concentrations above regulatory levels and submitted to the laboratory for TPH (DRO/GRO) analysis (SL-2). The analytical results indicated TPH (DRO/GRO) concentrations were below regulatory guidelines.

NMOCD review of this report and approval to place mixed soils back into excavation should be considered before performing subsequent activities at the Saunders Station location.

BNC appreciates this opportunity to provide environmental consulting services for BP. If you have any questions or comments with regards to this correspondence please call do not hesitate to contact our Midland office at (432) 686-0086.

Respectfully, **BNC Environmental Services, Inc.**

Luke D. Markham Project Manager

Will Murley, P.G. Project Geologist

on

Tom Larson, P.G. Operations Manager

Attachments: FIGURE 1- Site Location Map FIGURE 2- Site Details Certified Laboratory Analytical Reports C-141 Form

Cc:

Mr. Jim Lutter, BP PIPLINES (NORTH AMERICA) INC., Levelland, Texas



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Summary Report

Will Murley BNC Midland 2135 South Loop 250 West Midland, TX 79703 Report Date: March 31, 2004

Work Order: 4032514

Project Location: Lovington,NM Project Number: 1404

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
30328	SMA/SMB	soil	2004-03-24	10:56	2004-03-25
30329	E1	soil	2004-03-24	11:02	2004-03-25
30330	E2	soil	2004-03-24	11:05	2004-03-25
30331	E3	soil	2004-03-24	11:07	2004-03-25

		······		TPH DRO	TPH GRO	
	Benzene	Toluene	Ethylbenzene	Xylene	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
30328 - SMA/SMB	< 0.0500	< 0.0500	< 0.0500	< 0.0500	691	< 5.00
30329 - E1	< 0.500	< 0.500	< 0.500	< 0.500	151	<50.0
30330 - E2	< 0.500	< 0.500	< 0.500	0.662	3270	< 50.0
30331 - E3	< 0.100	< 0.100	< 0.100	<0.100	2140	<10.0

Sample: 30328 - SMA/SMB

Param	Flag	Result	Units	RL
Reactivity	······································	non-reactive		0.00
Hydrogen Sulfide		<10.0	mg/Kg	10.0
Hydrogen Cyanide		$<\!2.50$	mg/Kg	2.50
Corrosivity		non-corrosive	mm/yr	0.00
pH		8.40	s.u.	0.00
Ignitability		non-ignitable		0.00



6701 Aberdeen Avenue, Suite 9 155 McCutcheon, Suite H

Lubbock, Texas 79424 800 • 378 • 1296 El Paso, Texas 79932 888•588•3443 E-Mail: lab@traceanalysis.com

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FAX 806 • 794 • 1298 FAX 915•585•4944

Analytical and Quality Control Report

Will Murley BNC Midland 2135 South Loop 250 West Midland, TX 79703

Report Date: March 31, 2004

Work Order: 4032514

Project Location: Lovington,NM Project Number: 1404

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
30328	SMA/SMB	soil	2004-03-24	10:56	2004-03-25
30329	E1	soil	2004-03-24	11:02	2004-03-25
30330	E2	soil	2004-03-24	11:05	2004-03-25
30331	E3	soil	2004-03-24	11:07	2004-03-25

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Mahal T. All Dr. Blair Leftwich, Director

Analytical Report

Sample: 30328 - SMA/SMB

Analysis:BTEXQC Batch:8591Prep Batch:7655		Analytical I Date Analy: Date Prepar	zed:	S 8021B 2004-03-29 2004-03-29		Prep Me Analyzed Prepared	d By: MT
		RL					
Parameter Flag		Result	:	Units	Di	lution	RL
Benzene		< 0.0500		mg/Kg		50	0.00100
Toluene		< 0.0500		mg/Kg		50	0.00100
Ethylbenzene		< 0.0500		mg/Kg		50	0.00100
Xylene		< 0.0500)	mg/Kg	·······	50	0.00100
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	2	0.924	mg/Kg	g 50	0.100	18	74.4 - 114
4-Bromofluorobenzene (4-BFB)	3	0.861	mg/Kg	g 50	0.100	17	76.9 - 112

Sample: 30328 - SMA/SMB

Analysis:	RCI	Analytical Method:	ASTM D 5049-90/4978-95	Prep Method:	N/A
QC Batch:	8508	Date Analyzed:	2004-03-25	Analyzed By:	JH
Prep Batch:	7571	Date Prepared:	2004-03-25	Prepared By:	JH
Analysis:	RCI	Analytical Method:	S 1110	Prep Method:	N/A
Analysis:	RCI	Analytical Method:	SW-846 Ch. 7.1	Prep Method:	N/A

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Reactivity		non-reactive		1	0.00
Hydrogen Sulfide		<10.0	mg/Kg	1	10.0
Hydrogen Cyanide		<2.50	mg/Kg	1	2.50
Corrosivity		non-corrosive	mm/yr	1	0.00
pН		8.40	s.u.	1	0.00
Ignitability		non-ignitable		1	0.00

Sample: 30328 - SMA/SMB

Analysis: OC Batch:	TPH DRO 8595	Analytical Method: Date Analyzed:	Mod. 8015B 2004-03-29	Prep Method Analyzed By	
Prep Batch:		Date Prepared:	2004-03-26	Prepared By	
		RL			
Parameter	Flag	Result	Units	Dilution	RL
DRO		691	mg/Kg	1	50.0

¹Sample diluted due to surfactants.

²Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.

³Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.

Report Date: March 31, 2004 1404

Page Number: 3 of 11 Lovington,NM

			* * * .	-		Spike	Percent	Recovery
Surrogate	Flag	Result	Units		ilution	Amount	Recovery	Limits
n-Triacontane		230	mg/Kg		1	150	153	64.7 - 16
Sample: 30328 - 5	SMA/SMB							
Analysis: TPE	I GRO		Analytica	l Method:	S 8015B		Prep Met	hod: S 503:
QC Batch: 8594	4		Date Ana	lyzed:	2004-03-29		Analyzed	
Prep Batch: 765:	5		Date Prep	bared:	2004-03-29		Prepared	By: MT
			RL					
Parameter	Flag		Result		Units	Ľ	Dilution	R
GRO	4		<5.00		mg/Kg		50	0.10
						Spike	Percent	Recover
			D	Units	Dilution	Amount	Recovery	Limits
Surrogate		Flag	Result	Onus				
	IFT)	Flag 5	$\frac{\text{Result}}{0.770}$		50	0.100	15	51.9 - 14
Trifluorotoluene (4-Bromofluorober	izene (4-BFB)			mg/Kg mg/Kg		0.100 0.100		
Surrogate Trifluorotoluene (4-Bromofluorober Sample: 30329 - 1 Analysis: BTH QC Batch: 859 Prep Batch: 765	E1 EX	5	0.770 0.937 Analytical Date Analy	mg/Kg mg/Kg Method: 2 /zed: 2	50 50 S 8021B 2004-03-29		15 19 Prep Met Analyzed	50.6 - 14 hod: S 503 By: MT
Trifluorotoluene (4-Bromofluorober Sample: 30329 - J Analysis: BTI	E1 EX	5	0.770 0.937 Analytical Date Analy Date Prepa	mg/Kg mg/Kg Method: 2 /zed: 2	50 50 S 8021B		15 19 Prep Met	50.6 - 14 hod: S 503 By: MT
Trifluorotoluene (* 4-Bromofluorober Sample: 30329 - Analysis: BTH QC Batch: 859 Prep Batch: 765	E1 EX 1 5	5	0.770 0.937 Analytical Date Analy	mg/Kg mg/Kg Method: 1 /zed: 2 red: 2	50 50 S 8021B 2004-03-29	0.100	15 19 Prep Met Analyzed	50.6 - 14 hod: S 503 l By: MT By: MT
Trifluorotoluene (4-Bromofluorober Sample: 30329 - Analysis: BTH QC Batch: 859 Prep Batch: 765 Parameter	E1 EX	5	0.770 0.937 Analytical Date Analy Date Prepa RL	mg/Kg mg/Kg Method: 1 /zed: 2 red: 2	50 50 S 8021B 2004-03-29 2004-03-29	0.100	15 19 Prep Met Analyzed Prepared	By: MT
Trifluorotoluene (* 4-Bromofluorober Sample: 30329 - * Analysis: BTH QC Batch: 859 Prep Batch: 765 Parameter Benzene	E1 EX 1 5	5	0.770 0.937 Analytical Date Analy Date Prepa RL Result	mg/Kg mg/Kg Method: 1 /zed: 2 red: 2	50 50 S 8021B 2004-03-29 2004-03-29 Units	0.100	15 19 Prep Met Analyzed Prepared	50.6 - 14 hod: S 503 l By: MT By: MT R
Trifluorotoluene (4-Bromofluorober Sample: 30329 - Analysis: BTH QC Batch: 859	E1 EX 1 5	5	0.770 0.937 Analytical Date Analy Date Prepa RL Result <0.500	mg/Kg mg/Kg Method: 1 /zed: 2 red: 2	50 50 S 8021B 2004-03-29 2004-03-29 Units mg/Kg	0.100	15 19 Prep Met Analyzed Prepared ilution 500	50.6 - 14 hod: S 503 By: MT By: MT R 0.0010
Trifluorotoluene (* 4-Bromofluorober Sample: 30329 - * Analysis: BTH QC Batch: 859 Prep Batch: 765 Parameter Benzene Toluene	E1 EX 1 5	5	0.770 0.937 Analytical Date Analy Date Prepa RL Result <0.500 <0.500	mg/Kg mg/Kg Method: 1 /zed: 2 red: 2	50 50 S 8021B 2004-03-29 2004-03-29 Units mg/Kg mg/Kg	0.100	15 19 Prep Met Analyzed Prepared ilution 500 500	50.6 - 14 hod: S 503 By: MT By: MT R: 0.0010 0.0010 0.0010
Trifluorotoluene (* 4-Bromofluorober Sample: 30329 - * Analysis: BTH QC Batch: 859 Prep Batch: 765 Parameter Benzene Toluene Ethylbenzene Xylene	E1 EX 1 5	5	0.770 0.937 Analytical Date Analy Date Prepa RL Result <0.500 <0.500 <0.500 <0.500	mg/Kg mg/Kg Method: 1 'zed: 2 red: 2	50 50 S 8021B 2004-03-29 2004-03-29 Units mg/Kg mg/Kg mg/Kg mg/Kg	0.100 Di	15 19 Prep Met Analyzed Prepared ilution 500 500 500 500 500 Percent	50.6 - 14 hod: S 503 By: MT By: MT R 0.0010 0.0010 0.0010 0.0010 Recover
Trifluorotoluene (4-Bromofluorober Sample: 30329 - 1 Analysis: BTH QC Batch: 859 Prep Batch: 765 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate	E1 E1 5 Flag 7	5 6 Flag	0.770 0.937 Analytical Date Analy Date Prepa RL Result <0.500 <0.500 <0.500 <0.500 Result	mg/Kg mg/Kg Method: S rzed: 2 red: 2	50 50 S 8021B 2004-03-29 2004-03-29 Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	0.100 Di	15 19 Prep Met Analyzed Prepared ilution 500 500 500 500 500 Percent Recovery	50.6 - 14 hod: S 503 By: MT By: MT 0.0010 0.0010 0.0010 0.0010 Recover Limits
Trifluorotoluene (* 4-Bromofluorober Sample: 30329 - * Analysis: BTH QC Batch: 859 Prep Batch: 765 Parameter Benzene Toluene Ethylbenzene Xylene	E1 E1 EX 1 5 Flag 7	5	0.770 0.937 Analytical Date Analy Date Prepa RL Result <0.500 <0.500 <0.500 <0.500	mg/Kg mg/Kg Method: 1 'zed: 2 red: 2	50 50 S 8021B 2004-03-29 2004-03-29 Units mg/Kg mg/Kg mg/Kg mg/Kg	0.100 Di	15 19 Prep Met Analyzed Prepared ilution 500 500 500 500 500 Percent	50.6 - 14 hod: S 503 By: MT By: MT R 0.0010 0.0010 0.0010 0.0010 Recover

Sample: 50529 - E1

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	8595	Date Analyzed:	2004-03-29	Analyzed By:	BP
Prep Batch:	7654	Date Prepared:	2004-03-26	Prepared By:	DS

continued ...

⁴Sample diluted due to surfactants.

⁵Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control. ⁶Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.

⁷Sample diluted due to surfactants. ⁸Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.

⁹Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.

Report Date: Marcl 1404	n 31, 2004		/	Work Orde	r: 4032514		-	umber: 4 of 1 Lovington,NN
ample 30329 conti	nued							
Parameter	Flag		RL Result		Units		Dilution	RI
			RL					
Parameter	Flag		Result		Units		Dilution	RI
DRO			151		mg/Kg		1	50.0
	Flag	Result	Units		ilution	Spike Amount	Percent Recovery	Recovery Limits
Surrogate n-Triacontane	Tag	163	mg/Kg	D	1	150	109	64.7 - 162
Sample: 30329 - E	1							
Analysis: TPH	GRO		Analytica	l Method:	S 8015B		Prep Met	hod: S 503
QC Batch: 8594			Date Anal		2004-03-29		Analyzed	By: MT
Prep Batch: 7655			Date Prep	ared:	2004-03-29		Prepared	By: MT
			RL					
Parameter	Flag		Result		Units	г	Dilution	RI
GRO	10	·	<50.0		mg/Kg		500	0.10
				t				·
a .		T 1		TT T		Spike	Percent	Recovery
Surrogate	ET)	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (T 4-Bromofluorobenz	,	12	0.820 0.00	mg/Kg mg/Kg	500 500	0.100 0.100	2 0	51.9 - 14 50.6 - 14
Sample: 30330 - E Analysis: BTE.			Analytical 1	Method:	S 8021B		Pren Met	hod: S 503:
QC Batch: 8591			Date Analy:		2004-03-29			By: MT
Prep Batch: 7655			Date Prepar		2004-03-29		Prepared	
			RL					
Parameter	Flag	[Result		Units	D	ilution	RI
Benzene	13		<0.500		mg/Kg		500	0.0010
Toluene			< 0.500		mg/Kg		500	0.00100
Ethylbenzene			< 0.500		mg/Kg		500	0.00100
Xylene			0.662		mg/Kg		500	0.0010
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
		14 Flag						
Trifluorotoluene (T		14	0.950	mg/Kg	500	0.100	2	74.4 - 114

¹⁰Sample diluted due to surfactants.
 ¹¹Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.
 ¹²Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.
 ¹³Sample diluted due to surfactants.

¹⁴Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control. ¹⁵Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.

Report Date: March 31, 2004 Work Order: 4032514 Page Number: 5 of 11 1404 Lovington,NM Sample: 30330 - E2 Analytical Method: TPH DRO Mod. 8015B Prep Method: Analysis: N/A Date Analyzed: OC Batch: 8595 2004-03-29 Analyzed By: BP Date Prepared: 2004-03-26 Prep Batch: 7654 Prepared By: DS RL Result Flag Units Dilution RL Parameter 3270 DRO mg/Kg 5 50.0 Spike Percent Recovery Flag Surrogate Result Units Dilution Amount Recovery Limits 16 n-Triacontane 427 mg/Kg 5 30.0 285 64.7 - 162 Sample: 30330 - E2 TPH GRO Analytical Method: S 8015B Prep Method: S 5035 Analysis: QC Batch: 8594 Date Analyzed: 2004-03-29 Analyzed By: MT Date Prepared: 7655 2004-03-29 Prepared By: Prep Batch: MT RL Result Units Dilution RL Parameter Flag GRO 17 <50.0 mg/Kg 500 0.100 Spike Percent Recovery Flag Units Amount Surrogate Result Dilution Recovery Limits 18 0.890 Trifluorotoluene (TFT) mg/Kg 500 0.100 2 51.9 - 147 19 4-Bromofluorobenzene (4-BFB) 1.22 mg/Kg 500 0.100 2 50.6 - 141 Sample: 30331 - E3 Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035 QC Batch: 8591 Date Analyzed: 2004-03-29 Analyzed By: MT Prep Batch: 7655 Date Prepared: 2004-03-29 Prepared By: MT RL Flag Parameter Result Units Dilution RL Benzene < 0.100 100 mg/Kg 0.00100 Toluene < 0.100 100 0.00100 mg/Kg Ethylbenzene < 0.100 100 0.00100 mg/Kg Xylene < 0.100 100 mg/Kg 0.00100 Spike Percent Recovery Flag Surrogate Result Units Dilution Amount Recovery Limits Trifluorotoluene (TFT) 21 0.890 100 0.100 mg/Kg 9 74.4 - 114 22 4-Bromofluorobenzene (4-BFB) 0.767 100 0.100 8 mg/Kg 76.9 - 112 ¹⁶Surrogate recovery out of range due to peak interference. QC show the process within control. ¹⁷Sample diluted due to surfactants. ¹⁸Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.

¹⁹Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control. ²⁰Sample diluted due to surfactants.

²¹Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.

²²Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.

Report Date: 1404	March 31, 2004		Work Order: 4032514				Number: 6 of 11 Lovington,NM
Sample: 303.	31 - E3						
Analysis:	TPH DRO		Analytical Metho	d: Mod. 8015	В	Prep	Method: N/A
QC Batch:	8595		Date Analyzed:	2004-03-29)	Anal	yzed By: BP
Prep Batch:	7654		Date Prepared: 2004-03-26				ared By: DS
			RL				
Parameter	Flag	S	Result	Units		Dilution	RL
DRO	·		2140	mg/Kg		5	50.0
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane	e 23	438	mg/Kg	5	30.0	292	64.7 - 162

Sample: 30331 - E3

Analysis: QC Batch: Prep Batch:	TPH GRO 8594 7655		Analytica Date Anal Date Prep	yzed:	S 8015B 2004-03-29 2004-03-29	Prep M Analyza Prepare		By: MT
			RL					
Parameter	Flag		Result		Units	Di	ilution	RL
GRO	24		<10.0	<10.0			0.100	
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)	25	0.706	mg/Kg	100	0.100	7	51.9 - 147
4-Bromofluo	robenzene (4-BFB)	26	0.770	mg/Kg	100	0.100	8	50.6 - 141

Method Blank (1) QC Batch: 8591

Parameter	Flag		Result		Units		RL
Benzene	<u> </u>		< 0.0100		mg/Kg		0.001
Toluene			< 0.0100		mg/Kg	5	0.001
Ethylbenzene			< 0.0100		mg/Kg	5	0.001
Xylene			< 0.0100		mg/Kg	5	0.001
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	U	0.961	mg/Kg	10	0.100	96	64 - 113
4-Bromofluorobenzene (4-BFB)		0.841	mg/Kg	10	0.100	84	61 - 123

Method Blank (1) QC Batch: 8594

 ²³Surrogate recovery out of range due to peak interference. QC show the process within control.
 ²⁴Sample diluted due to surfactants.
 ²⁵Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.
 ²⁶Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.

Parameter	Flag		Result		Units	RL 0.1	
GRO			1.79		mg/K		
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.937	mg/Kg	10	0.100	94	51.1 - 152
4-Bromofluorobenzene (4-BFB)		0.883	mg/Kg	10	0.100	88	40.6 - 126

Method Blank (1) QC Batch: 8595

Parameter		Flag		Result	τ	Jnits	RL	
DRO				<50.0	m	50		
					Spike	Percent	Recovery	
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits	
n-Triacontane		134	mg/Kg	1	150	90	64.7 - 162	

Duplicate (1) QC Batch: 8508

	Duplicate	Sample				RPD
Param	Result	Result	Units	Dilution	RPD	Limit
Reactivity	non-reactive	non-reactive		1	0	
Hydrogen Sulfide	0.00	0.00	mg/Kg	1	0	20
Hydrogen Cyanide	0.00	0.00	mg/Kg	1	0	20
Corrosivity	non-corrosive	non-corrosive	mm/yr	1	0	20
pH	8.40	8.40	s.u.	1	0	20
Ignitability	non-ignitable	non-ignitable		1	0	20

Laboratory Control Spike (LCS-1) QC Batch: 8591

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Benzene	1.01	1.01	mg/Kg	10	0.100	< 0.0333	101	0	76 - 115	35
Toluene	0.969	0.967	mg/Kg	10	0.100	< 0.0353	97	0	75.6 - 115	36
Ethylbenzene	0.960	0.951	mg/Kg	10	0.100	< 0.0339	96	1	76.3 - 112	40
Xylene	2.90	2.87	mg/Kg	10	0.300	< 0.103	96	1	75.2 - 114	39

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.957	0.898	mg/Kg	10	0.100	96	90	74.4 - 114
4-Bromofluorobenzene (4-BFB)	0.933	0.889	mg/Kg	10	0.100	93	89	76.9 - 112

Laboratory Control Spike (LCS-1) QC Batch: 8594

Report Date: March 31, 2004 1404

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	10.4	10.6	mg/Kg	10	1.00	< 0.381	104	2	67.2 - 127	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.914	0.917	mg/Kg	10	0.100	91	92	51.9 - 147
4-Bromofluorobenzene (4-BFB)	0.939	0.952	mg/Kg	10	0.100	94	95	50.6 - 141

Laboratory Control Spike (LCS-1) QC Batch: 8595

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	210	204	mg/Kg	1	250	<12.0	84	3	64.2 - 138	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Triacontane	127	128	mg/Kg	1	150	85	86	64.7 - 162

Matrix Spike (MS-1) QC Batch: 8591

	MS	MSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Benzene	0.839	0.747	mg/Kg	10	0.100	< 0.0333	84	12	52.2 - 110	22
Toluene	0.825	0.738	mg/Kg	10	0.100	< 0.0353	82	11	43.6 - 125	20
Ethylbenzene	0.832	0.743	mg/Kg	10	0.100	< 0.0339	83	11	11.8 - 158	15
Xylene	2.52	2.26	mg/Kg	10	0.300	< 0.103	84	11	0 - 183	19

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	0.829	0.723	mg/Kg	10	0.1	83	72	36.9 - 133
4-Bromofluorobenzene (4-BFB)	0.812	0.717	mg/Kg	10	0.1	81	72	0 - 207

Matrix Spike (MS-1) QC Batch: 8594

Param	MS Result	MSD Result	Units	Dil.	Spike	Matrix Result	Pag	RPD	Rec.	RPD
Falain	Result	Result	Onits	Dn.	Amount	Result	Rec.	RPD	Limit	Limit
GRO	7.60	7.39	mg/Kg	50	1.00	<1.91	15	3	0 - 169	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.785	0.731	mg/Kg	50	0.1	16	15	0 - 202
4-Bromofluorobenzene (4-BFB)	0.962	0.931	mg/Kg	50	0.1	19	19	0 - 2644

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	191	193	mg/Kg	1	250	<12.0	76	1	62.4 - 128	20

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Triacontane	121	120	mg/Kg	1	150	81	80	64.7 - 162

Standard (ICV-1) QC Batch: 8591

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/L	0.100	0.104	104	85 - 115	2004-03-29
Toluene		mg/L	0.100	0.0989	99	85 - 115	2004-03-29
Ethylbenzene		mg/L	0.100	0.0976	98	85 - 115	2004-03-29
Xylene		mg/L	0.300	0.294	98	85 - 115	2004-03-29

Standard (CCV-1) QC Batch: 8591

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/L	0.100	0.101	101	85 - 115	2004-03-29
Toluene		mg/L	0.100	0.0980	98	85 - 115	2004-03-29
Ethylbenzene		mg/L	0.100	0.0967	97	85 - 115	2004-03-29
Xylene		mg/L	0.300	0.293	98	85 - 115	2004-03-29

Standard (ICV-1) QC Batch: 8594

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/L	1.00	1.04	104	85 - 115	2004-03-29

Standard (CCV-1) QC Batch: 8594

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/L	1.00	1.01	101	85 - 115	2004-03-29

Standard (ICV-1) QC Batch: 8595

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	212	85	64.2 - 138	2004-03-29

Standard (CCV-1) QC Batch: 8595

Report Date: March 31, 2004 1404				Work Order: 403	2514	Page Number: 10 of 11 Lovington,NM		
			CCVs	CCVs	CCVs	Percent		
		.	True	Found	Percent	Recovery	Date	
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed	
DRO		mg/Kg	250	217	87	64.2 - 138	2004-03-29	



Report Date: March 31, 2004 1404

Work Order: 4032514

Page Number: 11 of 11 Lovington,NM

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Report Date: May 18, 2004 1404

Summary Report Will Murley Report Date: May 18, 2004 BNC Midland Work Order: 2135 South Loop 250 West 4051014 Midland, TX 79703 ÷ --- ---Project Location: Lovington,NM 1404 Project Number: Date Time Date Sample Description Matrix Taken Taken Received 33+66 SE soil 2004-05-07 11:31 200+-05-10 2001-05-07 33467 EE soil 11:34 2004-05-10

			BTEX		TPH DRO	TPH GRO
	Benzene	Toluene	Ethylbenzene	Xylene	DRO	GRO
Sample - Field Code	(m_E/K_E)	$(m_{\rm E}/K_{\rm E})$	(mg/Kg)	(mg/Kg)	(m_E/K_E)	(m_E/K_E)
33466 - SE	<0.100	<0.100	i. <0.100	<0.100	1180	<10.0
33467 - EE	<0.0100	<0.0100	<0.0100	<0.0100	833	<1.00

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296

Analytical and Quality Control Report

Will Murley BNC Midland 2135 South Loop 250 West Midland, TX 79703 Report Date: May 18, 2004

Work Order: 4051014

Project Location: Lovington,NM Project Number: 1404

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
33466	SE	soil	2004-05-07	11:31	2004-05-10
33467	EE	soil	2004-05-07	11:34	2004-05-10

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 8 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

sturch Slan,

Dr. Blair Leftwich, Director

Analytical Report

Sample: 33466 - SE

Analysis:BTEXQC Batch:9712Prep Batch:8616		Analytical Mo Date Analyze Date Prepared	ed:	S 8021B 2004-05-17 2004-05-17		Prep Met Analyzec Prepared	By: MT
		RL					
Parameter Flag		Result		Units	Dil	ution	RL
Benzene		< 0.100		mg/Kg		100	0.00100
Toluene		< 0.100		mg/Kg		100	0.00100
Ethylbenzene		< 0.100		mg/Kg		100	0.00100
Xylene		<0.100		mg/Kg		100	0.00100
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	2	0.686	mg/Kg	g 100	0.100	7	74.4 - 114
4-Bromofluorobenzene (4-BFB)	3	0.901	mg/Kg	g 100	0.100	9	76.9 - 112

Sample: 33466 - SE

Analysis:	TPH DRO		Analytical Method	: Mod. 80)15B	Prep	Method:	N/A
QC Batch:	9672		Date Analyzed:	2004-05	5-14	Anal	yzed By:	BP
Prep Batch:	8588		Date Prepared:	2004-05	5-14	Prepa	ared By:	DS
			RL					
Parameter		Flag	Result	Un	its	Dilution		RL
DRO			1180	mg/I	ζg	5		50.0
					Spike	Percent	Reco	overy
Surrogate	Flag	Result	Units I	Dilution	Amount	Recovery	Lir	nits
n-Triacontan	e 4	292	mg/Kg	5	30.0	195	64.7	- 162

Sample: 33466 - SE

QC Batch: 9	ГРН GRO 9713 3616			Analytica Date Ana Date Prep	•	S 8015B 2004-05-17 2004-05-17		Prep M Analyze Prepare	•
				RL					
Parameter		Flag		Result		Units	D	ilution	RL
GRO		5		<10.0		mg/Kg		100	0.100
Surrogate			Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluen	e (TFT)		6	0.675	mg/Kg	100	0.100	7	51.9 - 147
								· · · · · ·	continued

¹Sample diluted due to surfactants.

 $^{^{2}}$ Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.

³Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.

⁴Surrogate recovery out of range due to peak interference. QC show the process within control.

⁵Sample diluted due to surfactants.

⁶Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.

	V	Vork Orde	r: 4051014		Page Number: 3 Lovington			
				Spike	Dercont	Pagavar		
Flag	Result	Units	Dilution	-		Recovery Limits		
	1.13	mg/Kg	100	0.100	11	50.6 - 141		
	Analytical M	Method:	S 8021B		Prep Met	hod: S 5035		
	•		2004-05-17		Analyzed	By: MT		
	Date Prepar	ed:	2004-05-17		Prepared	By: MT		
	RL							
lag			Units	I		RL		
						0.00100		
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1 II III	<0.0100		mg/Kg		10	0.00100		
		.		Spike	Percent	Recovery		
Flag						Limits		
						74.4 - 114		
)	$(\mathbf{I} \times I)$	mg/Kg	10	0.100	87	76.9 - 112		
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g	Analytica Date Ana Date Prej RL	al Method: alyzed:	Mod. 8015B 2004-05-14 2004-05-14		Prep N Analy: Prepar	Method: N/A zed By: BP red By: DS RL		
g	Analytic; Date Ana Date Prej RL Result	al Method: alyzed: pared:	Mod. 8015B 2004-05-14 2004-05-14 Units	Spike Amount	Prep N Analy: Prepar Dilution	Aethod: N/A zed By: BP red By: DS		
	lag Flag	Analytical M Date Analyzical M Date Analyzical M Date Prepar RL ag Result <0.0100 <0.0100 <0.0100 <0.0100 <0.0100 <0.0100 <0.0100 <0.0100 <0.0100 <0.0100	7 1.13 mg/Kg Analytical Method: Date Analyzed: Date Analyzed: Date Prepared: lag Result <0.0100	7 1.13 mg/Kg 100 Analytical Method: S 8021B Date Analyzed: 2004-05-17 Date Analyzed: 2004-05-17 Date Prepared: 2004-05-17 lag Result Units <0.0100	7 1.13 mg/Kg 100 0.100 Analytical Method: S 8021B Date Analyzed: 2004-05-17 Date Analyzed: 2004-05-17 Date Prepared: 2004-05-17 RL Image: Result Units Image: Display the second secon	Flag Result Units Dilution Amount Recovery 7 1.13 mg/Kg 100 0.100 11 Analytical Method: S 8021B Prep Method: Date Analyzed: 2004-05-17 Analyzed: Date Prepared: 2004-05-17 Prepared RL Image: Second State Image: Second State Image: Second State RL Image: Second State Image: Second State Image: Second State Iag Result Units Dilution <		

Prep Batch: 8616		Date Prepared:	2004-05-17		Preparec	By: MT
		RL				
Parameter	Flag	Result	Units	÷	Dilution	RL
GRO		<1.00	mg/Kg		10	0.100

⁷Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control. ⁸Changed spike amount from 150 to 30 due to post prep dillution.

Report Date: May 18, 2004 1404

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.867	mg/Kg	10	0.100	87	51.9 - 147
4-Bromofluorobenzene (4-BFB)		0.978	mg/Kg	10	0.100	98	50.6 - 141

Method Blank (1) QC Batch: 9672

Parameter	eter Flag			Result	τ	Jnits	RL
DRO				<50.0	m	50	
Commo a seta	The	Decult	Timita	Dilution	Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane		126	mg/Kg	1	150	84	64.7 - 162

Method Blank (1) QC Batch: 9712

Parameter	Flag		Result Units					
Benzene			<0.0100 mg/Kg				0.001	
Toluene			< 0.0100			ς	0.001	
Ethylbenzene			<0.0100			mg/Kg		
Xylene		<0.0100			mg/Kg	mg/Kg		
					Spike	Percent	Recovery	
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits	
Trifluorotoluene (TFT)		0.960	mg/Kg	10	0.100	96	64 - 113	
4-Bromofluorobenzene (4-BFB)		0.787	mg/Kg	10	0.100	79	61 - 123	

Method Blank (1) QC Batch: 9713

Parameter	Flag		Result		Units	5	RL
GRO		1.70			mg/K	0.1	
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.958	mg/Kg	10	0.100	96	51.1 - 152
4-Bromofluorobenzene (4-BFB)		0.860	mg/Kg	10	0.100	86	40.6 - 126

Laboratory Control Spike (LCS-1) QC Batch: 9672

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	239	238	mg/Kg	1	250	<12.0	96	0	64.2 - 138	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: May 18, 2004 1404

Surrogota	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Surrogate		iccount		DII.			<u> </u>	Linne
n-Triacontane	127	127	mg/Kg	1	150	84	84	64.7 - 162

Laboratory Control Spike (LCS-1) QC Batch: 9712

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.888	0.886	mg/Kg	10	0.100	< 0.0333	89	0	76 - 115	35
Toluene	0.934	0.947	mg/Kg	10	0.100	< 0.0353	93	1	75.6 - 115	36
Ethylbenzene	0.954	0.968	mg/Kg	10	0.100	< 0.0339	95	2	76.3 - 112	40
Xylene	2.90	2.93	mg/Kg	10	0.300	<0.103	96	1	75.2 - 114	39

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	0.968	0.988	mg/Kg	10	0.100	97	99	74.4 - 114
4-Bromofluorobenzene (4-BFB)	0.911	0.914	mg/Kg	10	0.100	91	91	76.9 - 112

Laboratory Control Spike (LCS-1) QC Batch: 9713

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
GRO	11.0	11.5	mg/Kg	10	1.00	< 0.381	110	4	67.2 - 127	. 20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	0.982	0.998	mg/Kg	10	0.100	98	100	51.9 - 147
4-Bromofluorobenzene (4-BFB)	0.993	1.02	mg/Kg	10	0.100	99	102	50.6 - 141

Matrix Spike (MS-1) QC Batch: 9672

Param DRO	MS Result 209	MSD Result 213	Units mg/Kg	Dil.	Spike Amount 250	Matrix Result <12.0	Rec.	RPD 2	Rec. Limit 62.4 - 128	RPD Limit 20
				based on th				<u>~</u>	02.4 - 120	
Percent recover	y is based of	n the spike r	esuit. KrD is	based on d	ne spike and	spike dupite	ate resul			
Percent recover	y is based of	MS	MSD	based on u	ne spike and	Spike dupile		MS	MSD	Rec.
Surrogate	y is based of	-		Units	Dil.		e		MSD Rec.	Rec. Limit

Matrix Spike (MS-1) QC Batch: 9713

_	MS	MSD			Spike	Matrix	-		Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
GRO	12.6	12.7	mg/Kg	10	1.00	< 0.381	126	1	0 - 169	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: May 18, 2004 1404

				MS	MSD			Spike	MS	MSD	Rec.
Surrogate]	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
	oluene (TFT			1.06	1.07	mg/Kg	10	0.1	106	107	0 - 202
4-Bromoflu	uorobenzen	le (4-BFB)		1.06	1.09	mg/Kg	10	0.1	106	109	0 - 2644
Standard ((ICV-1)	QC Batch	: 9672								
				CCVs		CCVs	CC	Vs	Percent		
				True		Found	Perc	-	Recovery		Date
Param	Flag	τ	Jnits	Conc.		Conc.	Recov		Limits		Analyzed
DRO	8		ng/Kg	250		241	96		64.2 - 138		2004-05-14
Standard ((CCV-1)	QC Batcl	h: 9672								
				CCVs		CCVs	CC	Vs	Percent		
				True		Found	Perc	-	Recovery		Date
n	Floo	T	Inits			Conc.	Recov		Limits		Analyzed
Param			Units Conc.				10		64.2 - 138		2004-05-14
DRO	Flag (ICV-1)		ng/Kg : 9712	250	CVs	252 CCVs		·			2004-03-12
DRO Standard (m QC Batch	: 9712	Cu	CVs True	CCVs Found	C Pe	CVs ercent	Percent Recovery		Date
DRO Standard (Param		m	: 9712 Units	Cu T Cu	rue onc.	CCVs Found Conc.	C Pe	CCVs ercent covery	Percent Recovery Limits	,	Date Analyzed
DRO Standard (Param Benzene		m QC Batch	: 9712 Units mg/Kg	Ci T C 0.	rue onc. 100	CCVs Found Conc. 0.0873	C Pe	CVs ercent	Percent Recovery Limits 85 - 115	, ,	Date Analyzed 2004-05-17
DRO Standard (Param Benzene Toluene	(ICV-1)	m QC Batch	: 9712 Units mg/Kg mg/Kg	Ct T Cc 0. 0. 0.	rue onc. 100 100	CCVs Found Conc.	C Pe	CCVs ercent covery 87	Percent Recovery Limits 85 - 115 85 - 115	,	Date Analyzed 2004-05-17 2004-05-17
Param DRO Standard (Param Benzene Toluene Ethylbenze Xylene	(ICV-1)	m QC Batch	: 9712 Units mg/Kg	Ct T C 0. 0. 0. 0.	rue onc. 100	CCVs Found Conc. 0.0873 0.0936	C Pe	CCVs ercent covery 87 94	Percent Recovery Limits 85 - 115	,	Date
DRO Standard (Param Benzene Toluene Ethylbenze Xylene	(ICV-1) ene	m QC Batch	: 9712 Units mg/Kg mg/Kg mg/Kg mg/Kg	Ct T C 0. 0. 0. 0.	rue onc. 100 100 100	CCVs Found Conc. 0.0873 0.0936 0.0957	C Pe	CCVs ercent covery 87 94 96	Percent Recovery Limits 85 - 115 85 - 115 85 - 115	,	Date Analyzed 2004-05-17 2004-05-17 2004-05-17
DRO Standard (Param Benzene Toluene Ethylbenze	(ICV-1) ene	m QC Batch Flag	: 9712 Units mg/Kg mg/Kg mg/Kg mg/Kg	Cr T C 0. 0. 0. 0. 0.	rue onc. 100 100 100	CCVs Found Conc. 0.0873 0.0936 0.0957	C Pe Re	CCVs ercent covery 87 94 96	Percent Recovery Limits 85 - 115 85 - 115 85 - 115	,	Date Analyzed 2004-05-17 2004-05-17 2004-05-17
DRO Standard (Param Benzene Toluene Ethylbenze Xylene	(ICV-1) ene	m QC Batch Flag	: 9712 Units mg/Kg mg/Kg mg/Kg mg/Kg	Cr T C 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	True 0nc. 100 100 300	CCVs Found Conc. 0.0873 0.0936 0.0957 0.291	C Pe Re	CCVs ercent covery 87 94 96 97	Percent Recovery Limits 85 - 115 85 - 115 85 - 115 85 - 115		Date Analyzed 2004-05-17 2004-05-17 2004-05-17
DRO Standard (Param Benzene Toluene Ethylbenze Xylene Standard ((ICV-1) ene	m QC Batch Flag	: 9712 Units mg/Kg mg/Kg mg/Kg mg/Kg	Cu T C 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	True onc. 100 100 300	CCVs Found Conc. 0.0873 0.0936 0.0957 0.291 CCVs Found Conc.	C Pe Re C Pe	CCVs ercent covery 87 94 96 97 CCVs	Percent Recovery Limits 85 - 115 85 - 115 85 - 115 85 - 115 Percent		Date Analyzed 2004-05-17 2004-05-17 2004-05-17
DRO Standard (Param Benzene Toluene Ethylbenze Xylene Standard (Param	(ICV-1) ene	The second secon	: 9712 Units mg/Kg mg/Kg mg/Kg h: 9712 Units mg/Kg	Cu T C 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	True 0nc. 100 100 300	CCVs Found Conc. 0.0873 0.0936 0.0957 0.291 CCVs Found	C Pe Re C Pe	CCVs ercent covery 87 94 96 97 97 CCVs ercent	Percent Recovery Limits 85 - 115 85 - 115 85 - 115 85 - 115 Percent Recovery		Date Analyzed 2004-05-17 2004-05-17 2004-05-17 2004-05-17
DRO Standard (Param Benzene Toluene Ethylbenze Xylene Standard (Param Benzene Toluene	(ICV-1) ene (CCV-1)	The second secon	: 9712 Units mg/Kg mg/Kg mg/Kg mg/Kg h: 9712 Units mg/Kg mg/Kg	Ct T C. 0. 0. 0. 0. 0. 0. Ct T C. 0. 0. 0. 0. 0.	True 0nc. 100 100 100 300	CCVs Found Conc. 0.0873 0.0936 0.0957 0.291 CCVs Found Conc.	C Pe Re C Pe	CCVs ercent covery 87 94 96 97 97 CCVs ercent covery	Percent Recovery Limits 85 - 115 85 - 115 85 - 115 Percent Recovery Limits		Date Analyzed 2004-05-1' 2004-05-1' 2004-05-1' 2004-05-1' Date Analyzed
DRO Standard (Param Benzene Toluene Ethylbenze Xylene	(ICV-1) ene (CCV-1)	The second secon	: 9712 Units mg/Kg mg/Kg mg/Kg h: 9712 Units mg/Kg	Ct T C 0. 0. 0. 0. 0. 0. Ct T C C 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	True 0nc. 100 100 300	CCVs Found Conc. 0.0873 0.0936 0.0957 0.291 CCVs Found Conc. 0.0910	C Pe Re C Pe Re	CVs ercent covery 87 94 96 97 97 CVs ercent covery 91	Percent Recovery Limits 85 - 115 85 - 115 85 - 115 Percent Recovery Limits 85 - 115		Date Analyzed 2004-05-1' 2004-05-1' 2004-05-1' 2004-05-1' Date Analyzed 2004-05-1'

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.00	100	85 - 115	2004-05-17

Standard (CCV-1) QC Batch: 9713

Report Date 1404	e: May 18, 200)4	= 1 (m.)	Work Order: 405	Page Number: 7 of 8 Lovington,NM		
	-		CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Cone.	Cone.	Recovery	Limits	Analyzed
GRO		mg/L	1.00	1.12	112	85 - 115	2004-05-17

standard Turn Around Time if different from

Page Number: 8 of 8 Lovington,NM

Work Order: 4051014

6701 Aberdeen Avenue, Ste. 9 155 McCutcheon,Suile H CHAIN-OF-CUSTODY AND ANALYSIS REQUEST Lubbock, Texas 79424 TraceAnalysis, Inc. El Paso, Texas 79932 Tel (806) 794-1296 Fax (806) 794-1298 Tel (915) 585-3443 4051014 Fax (915) 585-4944 LAB Order ID #_ 1 (800) 378-1296 1 (888) 588-3443 Phone #: Company Name: ANALYSIS REQUEST BNC ENV. 432-686-0086 (Circle or Specify Method No.) Address: (Street, City, Zip) Fax #: 432-686-0186 2135 5, LOOP 250W MIDLAND, TX 79703 Total Metals Ag As Ba Cd Cr Pb Se Hg 60108/200 7 Contact Person: Wice MURLEY Invoice to: (If different from above) Ŧ TCLP Metals Ag As Ba Cd Cr Pb Se Project #: Project Name: 1404 SAUNDERS STATION 0 GC/MS Semi Vol 8270C/625 Project Location: Sampler Signature: 6 A0/0A wm COVINGTON NM GC/MS Vol 8260B/624 PRESERVATIVE Pesticides 8081A/608 TCLP; Semi Volatiles # CONTAINERS MATRIX SAMPLING TPH 418 1/TX1005 Volume/Amount METHOD WTBE 8021B/602 BTEX 8021B/602 **TCLP:** Pesticides CB's 8082/608 E **CLP Volatiles** FIELD CODE LAB # SLUDGE PAH 8270C TSS WATER NONE HNO₃ H₂SO₄ NaOH DATE TIME 밀 (LAB USE) SOIL AIR lõ ŵ Plot Ÿ ONLY ΙĢ J 33466 v 402 r SE 517/m 1131 V V V 67 402 517/0y 1134 EE Date: Relinguished by: Time: Received by: Date: Time: REMARKS: LAB USE KTAN 104 5/07 1500 ONLY 5/7/04 1500 Date: Time: Received by: Date: Time: A. Intact_ 5/09/04 9:00HN Headspace Y / N 30 Relinguished by: Date: Time: Received at Laboratory by: Date: Time: Temp_ Check II Special Reporting 10.04 11:45 Limits Are Needed Log-in Review Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C. 240, web V ar GUI 146 1305 305 the Carrier #

ORIGINAL COPY

1404 Report Date: May 18, 2004

Page / _____of ____

Analytical and Quality Control Report

Will Murley BNC Midland 2135 South Loop 250 West Midland, TX 79703 Report Date: June 3, 2004

Work Order: 4052811

Project Location:Lovington,NMProject Name:Saunders StationProject Number:1404

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

35460	SL-2	soil	2004-05-27	12:38	2004-05-28
Sample	Description	Matrix	Taken	Taken	Received
			Date	Time	Date

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 5 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael abel

Dr. Blair Leftwich, Director

Analytical Report

Sample: 35460 - SL-2

Analysis: QC Batch: Prep Batch:	TPH DRO 10084 8930		Analytical Method Date Analyzed: Date Prepared:	: Mod. 801 2004-05-2 2004-05-2	29	Analy	Method: N/ yzed By: BF ared By: DS	Р
			RL					
Parameter	Fla	ıg	Result	Unit	S	Dilution	R	RL
DRO	······		<50.0	mg/Kg	g	1	50	0.0
Surrogate	Flag	Result	Units I	Dilution	Spike Amount	Percent Recovery	Recover Limits	*
n-Triacontan	e	139	mg/Kg	1	150	93	64.7 - 16	62

Sample: 35460 - SL-2

Analysis: QC Batch: Prep Batch:	TPH GRO 10088 8932		Analytical Date Anal Date Prep	yzed:	S 8015B 2004-05-28 2004-05-28		Prep Meth Analyzed Prepared F	By: MS
			RL					
Parameter	Fl	ag	Result		Units	Di	lution	RL
GRO			<1.00		mg/Kg		10	0.100
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)		0.913	mg/Kg	10	0.100	91	70 - 130
4-Bromofluo	robenzene (4-BFE	3)	0.983	mg/Kg	10	0.100	98	70 - 130

Method Blank (1) QC Batch: 10084

Parameter		Flag		Result	τ	Jnits	RL	
DRO				<50.0		mg/Kg		
					Spike	Percent	Recovery	
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits	
n-Triacontane		149	mg/Kg	1	150	99	64.7 - 162	

Method Blank (1) QC Batch: 10088

Parameter	Flag		Result		Units		RL
GRO			1.92		mg/Kg	3	0.1
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	10	0.100	102	70 - 130
4-Bromofluorobenzene (4-BFB)		0.900	mg/Kg	10	0.100	90	70 - 130

Report Date: June 3, 2004	Work Order: 4052811	Page Number: 3 of 5
1404	Saunders Station	Lovington,NM

Laboratory Control Spike (LCS-1) QC Batch: 10084

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
DRO	237	238	mg/Kg	1	250	<12.0	95	0	64.2 - 138	20
Percent reco	overv is based o	n the spike r	esult. RPD is	s based or	the spike and	spike duplic	ate result.			

LCS LCSD Spike LCS LCSD Rec. Dil. Result Result Units Amount Limit Rec. Rec. Surrogate n-Triacontane 144 144 mg/Kg 1 150 96 96 64.7 - 162

Laboratory Control Spike (LCS-1) QC Batch: 10088

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
GRO	11.0	10.5	mg/Kg	10	1.00	< 0.381	110	5	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.02	1.08	mg/Kg	10	0.100	102	108	70 - 130
4-Bromofluorobenzene (4-BFB)	1.06	1.05	mg/Kg	10	0.100	106	105	70 - 130

Matrix Spike (MS-1) QC Batch: 10084

	MS	MSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
DRO	253	257	mg/Kg	1	250	<12.0	101	2	62.4 - 128	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	130	130	mg/Kg	1	150	87	87	64.7 - 162

Matrix Spike (MS-1) QC Batch: 10088

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	10.3	10.2	mg/Kg	10	1.00	< 0.381	103	1	70 - 130	20

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	0.800	0.902	mg/Kg	10	0.1	80	90	70 - 130
4-Bromofluorobenzene (4-BFB)	1.02	1.03	mg/Kg	10	0.1	102	103	70 - 130



Report Da 1404	te: June 3, 2004	4		Vork Order: 4052 Saunders Statio	Pag	Page Number: 4 of 5 Lovington,NM				
_		TT '.	CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date			
Param DRO	Flag	Units mg/Kg	250	<u>Conc.</u> 245	Recovery 98	Limits 64.2 - 138	Analyzed 2004-05-29			
Standard	(CCV-1) Q	C Batch: 10084								
			CCVs	CCVs	CCVs	Percent	_			
Param	Flag	Units	True Conc.	Found Conc.	Percent	Recovery Limits	Date			
DRO	Flag	mg/Kg	250	275	Recovery 110	64.2 - 138	Analyzed 2004-05-29			
Standard										
Stanuard	(ICV-1) QC	C Batch: 10088	CCVs	CCVs	CCVs	Percent				
			True	Found	Percent	Recovery	Date			
Param	(ICV-1) QC	Units	True Conc.	Found Conc.	Percent Recovery	Recovery Limits	Analyzed			
	Flag		True	Found	Percent	Recovery				
Param GRO	Flag	Units mg/L	True Conc.	Found Conc.	Percent Recovery	Recovery Limits	Analyzed			
Param GRO	Flag	Units mg/L	True Conc. 1.00	Found Conc. 1.08	Percent Recovery 108	Recovery Limits 85 - 115	Analyzed			
Param GRO	Flag	Units mg/L	True Conc. 1.00 CCVs	Found Conc. 1.08 CCVs	Percent Recovery 108 CCVs	Recovery Limits 85 - 115 Percent	Analyzed 2004-05-28			

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6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424 Tel (806) 794-1296 Fax (806) 794-1298 Tax (806) 794-1298									32	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST																							
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Company Na	me: RNC	•							ne #	: 2 4	91			96								AN/	ALY!	SIS	RE	QUE	ST						
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(LAB USE)		•		# CONTAINERS	Volume/Amount	WATER		SLUDGE		HNO, H	H,SO.	NaOH	NONE		DATE	TIME	MTBE 8021B/602	BTEX 8021B/602 TPH 418 1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200	TCLP Mel	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC:MS vol 8260B/624	UC/M3 SEMI VOI 82/UC/623	Pesticides 8081A/608	BOD TSS. pH	NOT			Turn Around Time if different from standard	1-1
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Report Date: June 3, 2004 1404

Work Order: 4052811 Saunders Station

Page Number: 5 of 5 Lovington,NM .

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<u>District I</u> 1625 N. French I	Der Klabbe I	NM 88240				New Mexi				Form C-14				
District II				Energy Mi	nerals	and Natural	Resources		Revised October 10, 200					
301 W. Grand	Avenue, Arta	csia, NM 88210		Oil C	lonse	rvation Div	ision		Submit 2 Copies to appropriat District Office in accordance					
000 Rio Brazos District IV	Road, Azter	e, NM 87410		++		h St. Franci			District (th Rule 116 on back				
1220 S. St. Fran	cis Dr., Sant	a Fc, NM 87505	i	Sa	inta F	e, NM 875	05			side of form				
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		BP Pipelines	(NA) In	¢		Contact	Mike Stansif							
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Unit Letter	Section 3	Township 15	Range 33	Feet from the	Nort	h/South Line	Feet from the	East/West Line	Lea					
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Describe Ca	use of Prot	olem and Rem	edial Acti	on Taken.*		·····				`				
Tank overfic	wed while	being filled b	y transp o	rts. Drivers fired	-									
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