### SITE INFORMATION

		Re	port Type: 0	Closure		
General Site In	formation:	and the state of the second state of the secon		F. C. M. Barler	and a standard and a standard and a standard	
Site:		East Millman				
Company:		Stephens and	d Johnson Operat	ing Co.		······
Section, Town	ship and Range	Sec 15	T19S	R28E		
Lease Number	· ·	API-30-015-02	2257			
County:		Eddy County				
GPS:		1	32.65456° N	•		104.15868° W
Surface Owne		State				
Mineral Owner	<u> </u>				<u> </u>	· · · · · · · · · · · · · · · · · · ·
Directions:		235) for 13.8 mi		-246 and trav	el for 1.8 miles, tur	rel west on Curry Comb Rd. (Cl n right onto CR-247 and travel
Date Released.	•	Unknown				
Type Release:		Oil				
Source of Conta		Vent Line				-
Fluid Released		N/A				·
Fluids Recover		N/A				
Official Comm	unication:			1. T. M. J.		
Name:	Mike Kincaid				Ike Tavarez	
Company:	Stephens & Johns	son Operating Co.			Tetra Tech	
Address:				·	1910 N. Big Sprin	
P.O. Box	D.O. Boy 0040				1010 N. Dig Opini	<u>9</u>
	P.O. Box 2249					····
City:	Wichita Falls, Tx	76307			Midland, Texas	· · · · · · · · · · · · · · · · · · ·
Phone number:	(940) 723-2166				(432) 682-4559	
Fax:						
Email:	mkincaid@sjoc.	net			ike.tavarez@tet	ratech.com
Ranking Criter	ia <u>(</u>	ا میں اور اور اور اور اور کاری کی اور				
Depth to Ground	dwater:		Ranking Score	1	Site	Data
<50 ft	· · · · · · · · · · · · · · · · · · ·		20			
50-99 ft		· · · · · · · · · · · · · · · · · · ·	10			
>100 ft.			0			0
WellHead Protec	ction:		Ranking Score		Site	Data
	1,000 ft., Private <200	) ft.	20			
	1,000 ft., Private >200		0	1	······································	0
Surface Body of	f Water:		Ranking Score	1	Site	Data
<200 ft.	······································		20	1		
200 ft - 1,000 ft.			10			
>1,000 ft.			0			0 TEV
n an air an	Total Ranking Sco		able Soil RRAL (m			ORECEIVED RECEIVED SEP 22 2011 SEP 22 2011 NMOCD ARTESIA
			<b>. .</b>		י ר <b>ו</b>	
		Benzene 10	Total BTEX 50	<b><i>TPH</i></b> 5,000	] \	NOCD I

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August 5, 2011

Mr. Mike Bratcher Environmental Bureau Oil Conservation Division, District 2 1301 W. Grand Ave. Artesia, New Mexico 88210

#### RE: Closure Request for the Stephens and Johnson Operating Co., East Millman Unit #150, located in Unit Letter P, Section 15, Township 19 South, Range 28 East, Eddy County, New Mexico. (LOV #02-09-132)

Dear Mr. Bratcher:

Tetra Tech Inc. was contacted by Stephens and Johnson Operating Co. to assess and remediate a vent area located Unit Letter P, Section 15, Township 19 South, Range 28 East, Eddy County, New Mexico. The vent area is located west of the Millman Tank Battery. Periodically, the gas and oil from the tank battery was vented into an earthen pit measuring approximately 25' x 25'. Stephens and Johnson received a Letter of Violation (LOV), dated February 23, 2010, from the New Mexico Oil Conservation Division (NMOCD) addressing the vent area and impacted soils. The LOV and the initial C-141 are enclosed in Appendix A.

Tetra Tech submitted a work plan to assess impacted soils associated with the earthen pit, dated March 15, 2010. The work plan proposed the following:

- 1. Discontinue venting into the earthen pit.
- 2. Remove free fluids from the earthen pit.
- 3. The venting line will be connected to an above ground tank to contain any liquids during periodic venting.
- 4. Once the equipment and vent line are removed, the earthen pit will be scraped (1.0' to 2.0') to remove saturated soils, which would be hauled to proper disposal.



5. Once removed, Tetra Tech will supervise the installation of boreholes to assess the impacted soil.

#### **Groundwater and Regulatory**

A review of the New Mexico office of the State Engineer and the USGS database did show wells in Section 9, Township 19 South, Range 25 East with reported depths to water of 265' and 246', respectively. The groundwater depth map is enclosed in Appendix B.

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. Based upon the risk based evaluation, the Site will be remediated to the proposed RRAL of 5,000 mg/kg.

#### Soil Assessment/Boreholes Installation

Stephens and Johnson have discontinued the used of the earthen pit. The vent line has been plumbed into an above ground tank to contain any liquids from periodic venting. In additional, the free liquids were removes and earthen pit the was excavated to remove the saturated soil, approximately 2.0 to 4.0" below surface. The excavated soil was transported to proper disposal. Once completed, Stephens and Johnson contacted Tetra Tech to evaluate the soils.

On May 6, 2010, Tetra Tech personnel were onsite to supervise the installation of boreholes using an air rotary rig. Soil samples were collected to evaluate the extent of subsurface impact at this site to total depth of 20.0' to 40.0' below surface. In addition, a background borehole was installed to evaluate the soil surrounding the area. Borehole (BH-1) was installed in the center of the vent pit to define the vertical extents and the remaining boreholes (BH-2, BH-3, BH-4 and BH-5) were installed around the perimeter of the pit to define the horizontal extents. The soil samples were placed into laboratory supplied containers and delivered to a laboratory under chain-of-custody control for TPH analysis by EPA method 300.0. The laboratory reports and chain of custody documentation are included in Appendix C. The borehole data is summarized in Table 1.

Referring to Table 1, none of the samples exceed the RRAL for TPH or BTEX. The chloride concentrations did show a slight impact the subsurface soils. Borehole (BH-1), installed in the center of the pit, showed chloride



concentrations <1,000 mg/kg, with a bottom hole concentration of 368 mg/kg at 20.0' below excavation bottom. The samples from BH-2 were all below 1,000 mg/kg, with bottom hole concentration of 507 mg/kg. Boreholes (BH-3, BH-4 and BH-5) did show chloride concentrations slightly above 1,000 mg/kg (1,260 mg/kg, 1,270 mg/kg and 1,130 mg/kg) at varying depths. The samples declined with depth, with bottom hole concentrations of <200 mg/kg at 20', 575 mg/kg at 20' and 460 mg/kg at 40', respectively.

The background borehole was installed to a depth of 60' below surface and showed chloride concentrations <200 in the majority of the samples, with a chloride high of 289 mg/kg at 30' below surface.

#### **Remedial Activities**

Based on the approved work plan, Tetra Tech personnel supervised the excavation of the site on July 20, 2011. The impacted soil around and bottom of the pit were excavated and hauled to CRI for disposal. The pit bottom was excavated to a depth of 4.0' below surface for the installation of the 40 mil liner. The excavation measured approximately 27' x 30'. Once completed, the excavation was backfilled with clean soil to grade. The excavation depth is highlighted in Table 1 and shown on Figure 4. A copy of the C-141 (Final) is included in Appendix A.

If you have any questions or comments concerning the assessment, please call me at (432) 682-4559.

Ike Tavarez .F

Project Manager/Senior Geologist

cc: Mike Kincaid - Stephens and Johnson

**FIGURES** 

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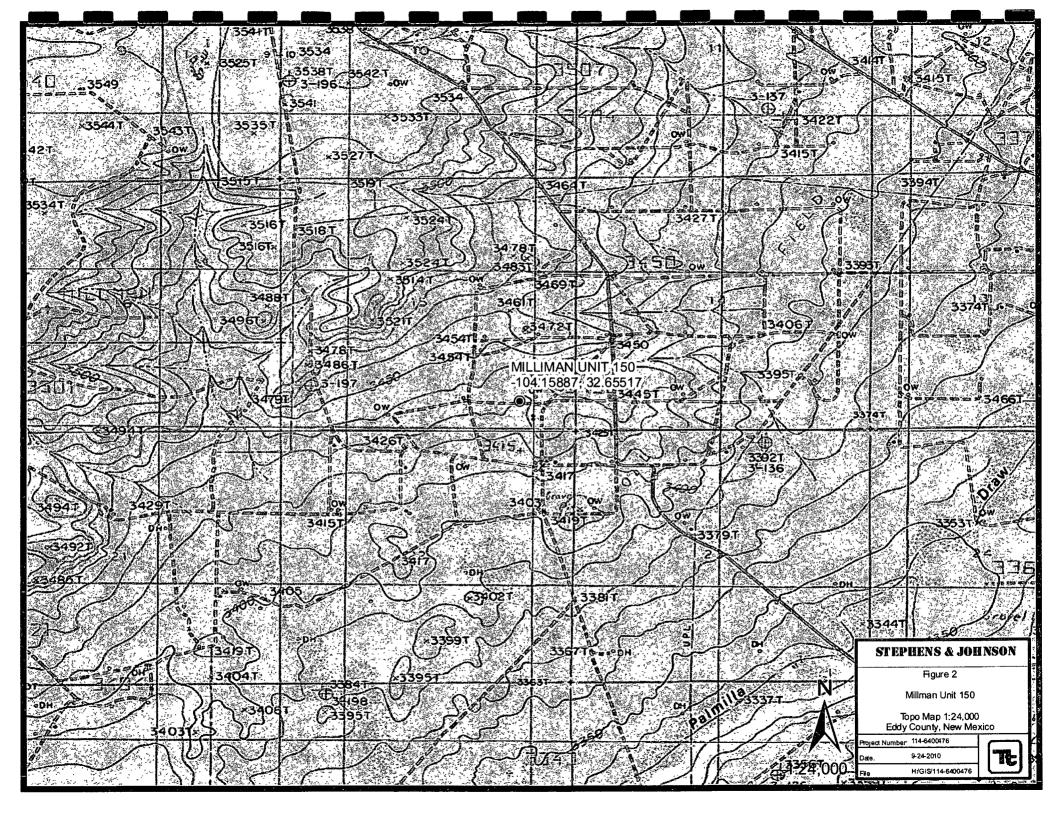
ECLIFG

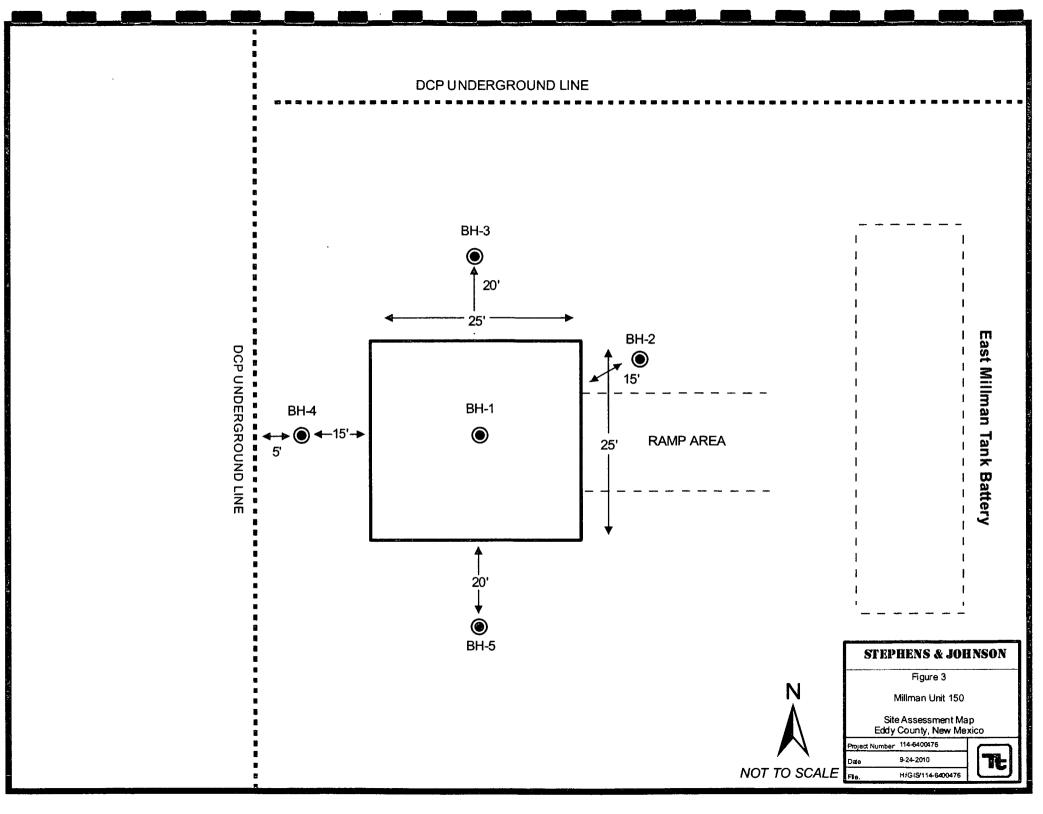
STEPHENS & JOHNSON

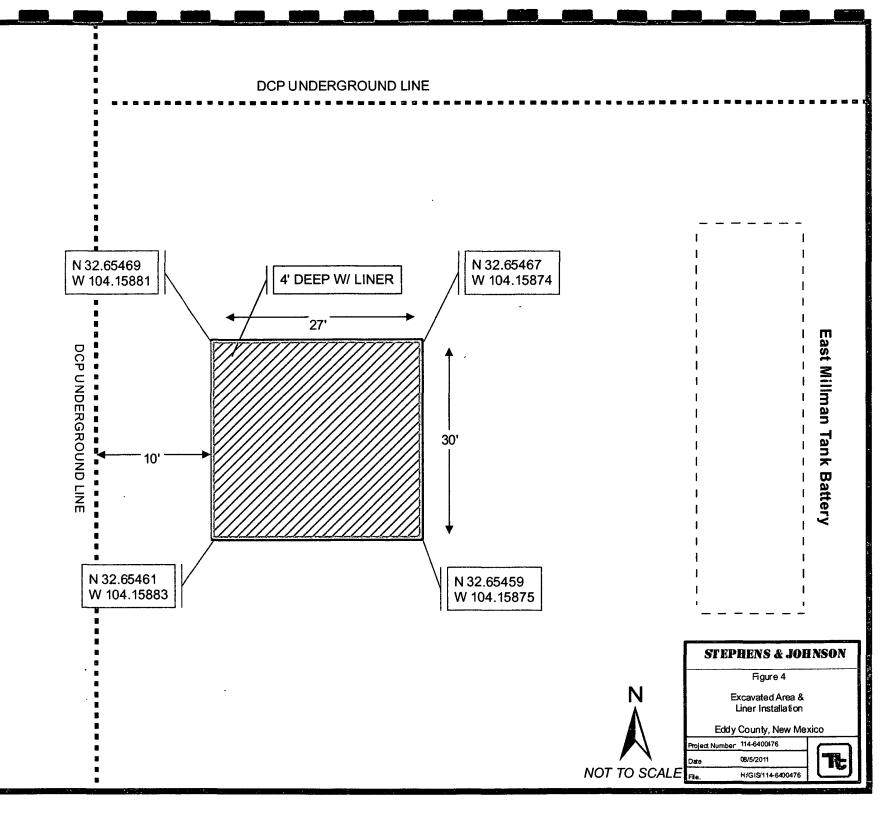
Figure 1 Millman Unit 150

Topo Map 1:250,000 Eddy County, New Mexico

114-6400476 9-24-2010 H/GIS/114-6400476







## **PHOTOGRAPHS**

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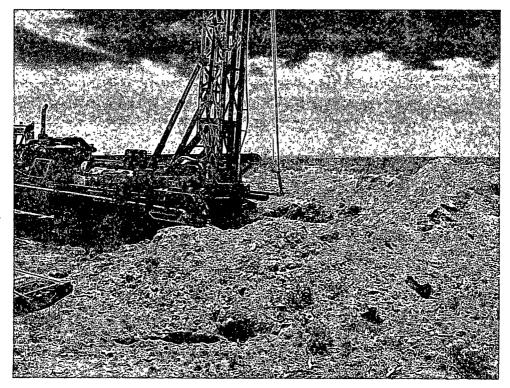
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Stephens and Johnson - East Millman Unit Eddy County, New Mexico

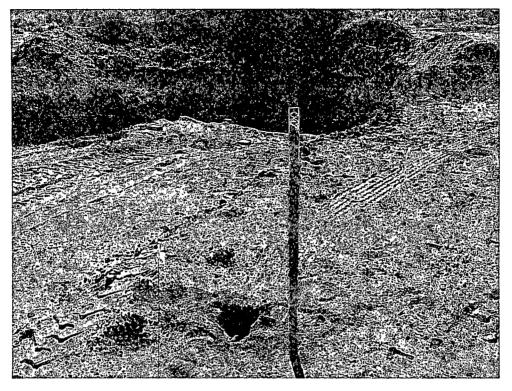


View of earthen pit area, after excavation

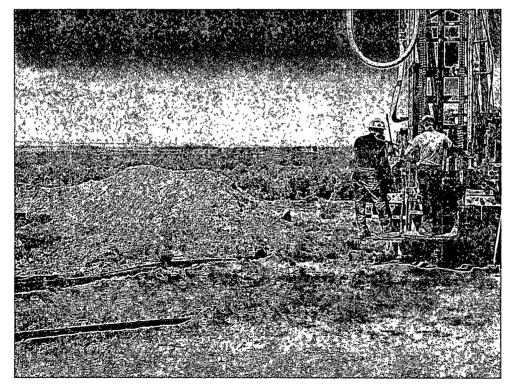


View of earthen pit area and BH-1

Stephens and Johnson - East Millman Unit Eddy County, New Mexico

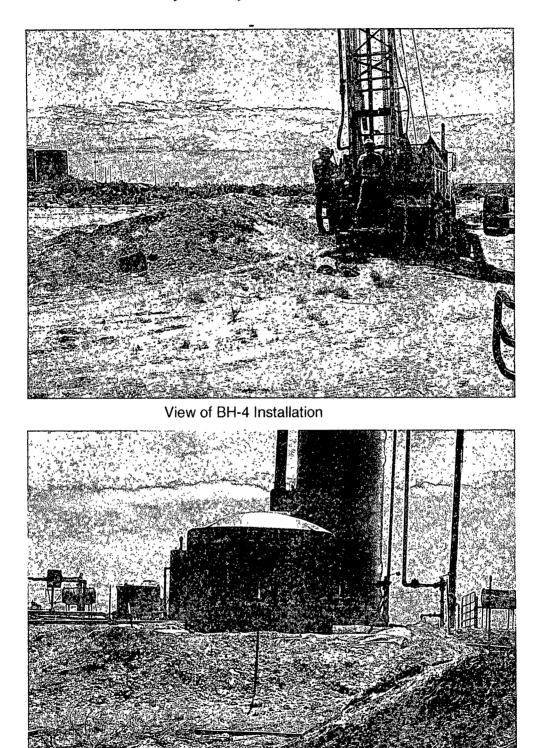


View of BH-2 Location



View of BH-3 Installation

Stephens and Johnson - East Millman Unit Eddy County, New Mexico

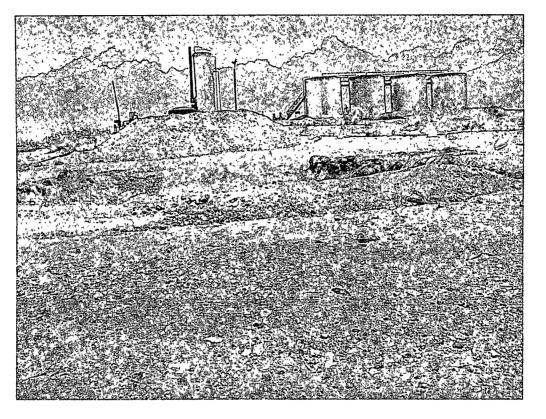


View of new above tank installed for venting

Stephens & Johnson East Millman Tank Battery Eddy County, New Mexico



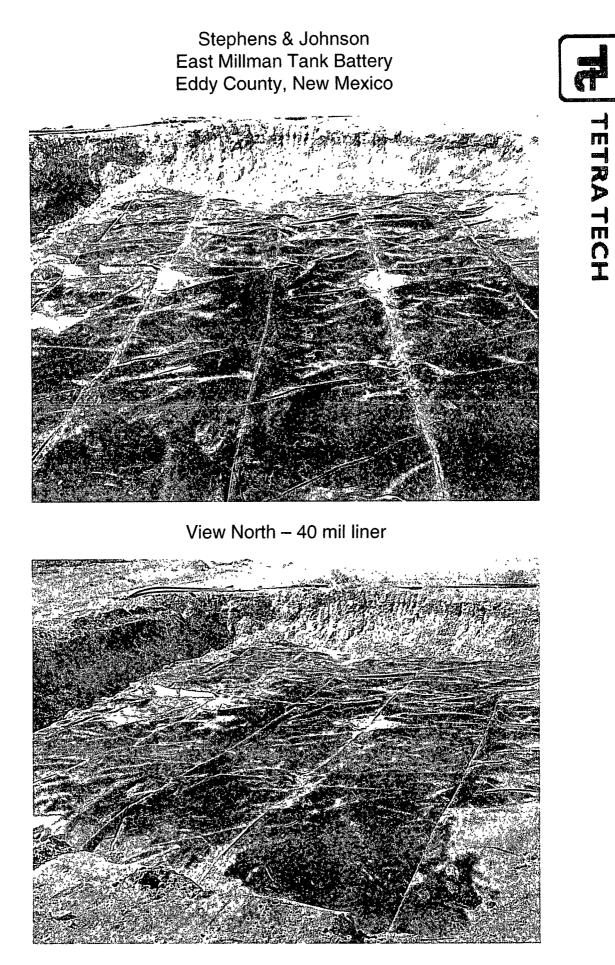
TETRA TECH



View East - Excavation



View East - Excavation side wall



View North West – 40 mil liner

TABLES

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# Table 1STEPHENS & JOHNSONEAST MILLMAN TANK BATTERYEDDY COUNTY, NEW MEXICO

Sample	Date	Sample	Soil	Status		FPH (mg/kg	)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
ID	Sampled	Depth (ft)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BG-10'	5/5/2010	10'	x		-	-	-	-	*	-	-	<200
BG-20'	5/5/2010	20'	x		-	-	-	-		-	-	<200
BG-30'	5/5/2010	30'	х		-	-	-	-	<u> </u>	-	-	289
<u>BG</u> -40'	5/5/2010	40'	х		-	-	•	_	-		-	<200
BG-50'	5/5/2010	50'	х		-	-	-	-	-	-	-	<200
BG-60'	5/5/2010	60'	x		-	-	-	<u> </u>	-	-		<200
BH-1	5/5/2010	0-1'		.x .	-1140	404.	1544	0.816	1 35	1.16	3.49	- <200
	5/5/2010	3-4'	· •	¥x	1		<b>4</b> .414,		•	•	• •	- 246
	5/5/2010	7-8'	х		-	_	-	-	-		-	398
	5/5/2010	10-11'	х		-		~	-	-	-		355
	5/5/2010	15-16'	x		-	-	-	-	-	-	-	617
	5/5/2010	20-21'	x		-	-	-	-	-	-	<u> </u>	368
BH-2	5/5/2010	0-1'	х		<1 00	177	177	<0.0100	<0.0100	<0 0100	<0 0100	779
	5/5/2010	3-4'	х		-	-	-	-	_	-	•	913
	5/5/2010	7-8'	х		-	-	-	-	-	-		435
	5/5/2010	10-11'	х		-	-	-		-	-	-	<200
	5/5/2010	15-16'	х		-	-	-	-	-	-	-	621
	5/5/2010	20-21'	х		-	-	-	-	_	-	-	507

.



Not Analyzed

Excavated Depths

40 mil liner

BG Bacl

Background

#### Table 1 **STEPHENS & JOHNSON** EAST MILLMAN TANK BATTERY EDDY COUNTY, NEW MEXICO

.

Sample	Date	Sample	Soil	Status		TPH (mg/kg	)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
ID	Sampled	Depth (ft)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-3	5/6/2010	0-1'	x		<1 00	<50 00	<50 00	<0 0100	<0 0100	<0 0100	<0 0100	<200
	5/6/2010	3-4'	x			<b>.</b>	-				<u> </u>	1,260
	5/6/2010	7-8'	x					-	-	-		971
	5/6/2010	10-11'	<u>x</u>			-	-	-	-	-		667
	5/6/2010	15-16'	<u> </u>						<u> </u>		*	<200
	5/6/2010	20-21'	<u>x</u>			-		-				<200
<u>BH-</u> 4	5/6/2010	0-1'	x		<1.00	<50 00	<50.00	<0 0100	<0 0100	<0 0100	<0.0100	<200
	5/6/2010	3-4'	<u>×</u>			-	-		-	-		247
	5/6/2010	7-8'	×			÷	<del>_</del>	-		-	-	918
	5/6/2010	10-11'	x		-	-	-	-	-		-	1,270
	5/6/2010	15-16'	x				-	-				628
	5/6/2010	20-21'	x		-	-	<u> </u>	-		-	-	575
BH-5	5/6/2010	0-1'	x		<1 00	<50.00	<50 00	<0.0100	<0 0100	<0 0100	<0 0100	<200
	5/6/2010	3-4'	x			-	-	-	-	-	-	620
	5/6/2010	7-8'	<u>x</u>			-		-	-		-	421
	5/6/2010	<u>10-11'</u>	x		-	-	•			-		809
	5/6/2010	15-16'	X			-				-		644
	5/6/2010	20-21'	x		-	-	-	-	-	-	-	983

40 mil liner

Background Borehole BG

**APPENDIX A** 

#### State of New Mexico Energy Minerals and Natural Resources

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.

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

	,	,		S	inta Fe	, NM 875	US					
**			Relo	ease Notifi	catior	and Co	orrective A	ction				
						OPERAT	FOR		🛛 Initi	al Report		Final Report
Name of Co	ompany St	tephens & Jo	hnson O	perating Co.		Contact Mi	ke Kincaid					
		49, Wichita I		. 76307			No. (940) 723-2					
Facility Nat	me East M	fillman Unit	No. 150			Facility Typ	e Tank Battery	r		·		
Surface Ow	ner State I	Land		Mineral (	Dwner	······			Lease	No. 30-015	-0225	7
L <u>in n 11 12 1</u>	• • • • • • • • • • • • • • • • • • •			LOC	ATTO	N OF REJ	FASE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/	West Line	County		
P	15	19S	28E							Eddy		
L	<u> </u>				l			I				
		Lati	itude	32.65456		_ Longitud	e104.15868					
				NAT	URE	OF RELI	EASE					
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Was Immedi	ate Notice (	Given?				If YES, To	Whom?				$\overline{\wedge}$	
			Yes 🗌	] No 🖾 Not R	equired	N/A					ÓÌ	$\backslash$
By Whom?						Date and H						
Was a Water	course Read		Yes 🗵	No		If YES, Vo   N/A	lume Impacting t	the Wat	ercourse.	$\langle \cdot \rangle$	100	
10 111						11/11		,		CEIVE SEP 22	~	(S)
If a Waterco	urse was Im	pacted, Descr	ibe Fully.	•					< 4.	Str -	RA	/
N/A										<u>َ</u>		
										NNO		
Describe Car	use of Probl	em and Reme	dial Actio	n Taken.*						$\vee$		
				- Teels Datters a	ditate and				:!			
				n Tank Battery, v The pit containe								
		g periodic ven									Z	
Describe Are	a Affected	and Cleanup A	Action Tal	cen.*								
				5'. As per LOV 1	10. 02-09	-132 the rain	n water and free o	oil have	been remo	ved from the	pit. A	A work plan
will be comp	neted to add	lress the impa	cted soll.									
I hereby cert	ify that the	information gi	iven abov	e is true and comp	lete to th	e best of my	knowledge and u	ndersta	nd that pur	suant to NM		rules and
				nd/or file certain								
				ce of a C-141 rep								
				v investigate and a stance of a C-141								
		ws and/or regu			roportu		e the operator of	respons		omphanee	vitii ai	ly other
	1.1	Λ'ι .	レ、	$\overline{)}$			OIL CON	SERV	<b>ATION</b>	DIVISIO	<u>)N</u>	
Signature:	Will	· M. F	Inco	înc								
Dignature.	WU-			- \		Annroved by	District Supervis	or:				
Printed Nam	e: William	M. Kincaid										
Title: Petro	leum Engin	eer				Approval Dat	te:		Expiration	Date:		
17 mail 4 44		aid@aiaa ==t				Conditions of	Annewale					
E-mail Addr	ess: mkind	aid@sjoc.net		<u></u>		Conditions of	Арргоча:			Attached		
Date: 03/15	/2010		Phone: 9	40-723-2166								

\* Attach Additional Sheets If Necessary

New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson

Jon Goldstein Cabinet Secretary

Jim Noel Deputy Cabinet Secretary Mark Fesmire Division Director Oil Conservation Division



\*Response Required – Deadline Enclosed\* Field Inspection Program

"Preserving the Integrity of Our Environment

23-Feb-10 STEPHENS & JOHNSON OP CO PO BOX 2249 WICHITA FALLS TX 76307

#### **LETTER OF VIOLATION -**

(12-09-132

Dear Operator:

The following inspection(s) indicate that the well, equipment, location or operational status of the well(s) failed to meet standards of the New Mexico Oil Conservation Division as described in the detail section below. To comply with standards imposed by Rules and Regulations of the Division, corrective action must be taken immediately and the situation brought into compliance. The detail section indicates preliminary findings and/or probable nature of the violation. This determinations based on an inspection of your well or facility by an inspector employed by the Oil Conservation Division.

Please notify the proper district office ,in writing , of the date corrective actions are scheduled to be made so that arrangements can be made to reinspect the well and /or facility.

#### **INSPECTION DETAIL SECTION**

EAST M Inspecti	ILLMAN UI on	NT No.150				-19S-28E <b>30</b> Significant	-015-02257-00-00 Corrective
Date	Type Inspe	ection	Inspector	Violation?	Non-Complia	nce? Action I By:	Due Inspection No.
02/23/20	10 Routine	Periodic	Tim Gum	Yes	No	3/23/2010	iTWG10054465
Comme Inspecti		NOTE: la	rge amount of free	e oil standing	in earthen pit	located west of	battery.
		prohibited,		nks, 3.) 19.15			l Operations/Waste 19.15.17 ; Pits, and
			a remediation and				Submit a form C-141 I area and the
		, •	:	····	, , , ,	÷ 244	· · · · · · · · · · · · · · · · · · ·
		Corrective	action to be taken	ı; oil removed	d immediately ,	, form and plan	by 3/23/10.



In the event that a satisfactory response is not received to this letter of direction by the "Corrective Action Due By:" date shown above, further enforcement will occur. Such enforcement may include this office applying to the Division for an order summoning you to a hearing before a Divison Examiner in Santa Fe to show cause why you should not be ordered to permanently plug and abandon this well. Such a hearing may result in imposition of CIVIL PENALTIES for your violation of OCD rules.

Sincerely, Jim D. Sum

Artesia OCD District Office

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Note: Information in Detail Section comes directly from field inspector data entries - not all blanks will contain data. \*Significant Non-Compliance events are reported directly to the EPA, Region VI, Dallas, Texas.

## **APPENDIX B**

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#### Water Well Data Average Depth to Groundwater (ft) Stephens and Johnson - Millman Tank Battery Eddy County, New Mexico

28 East

18 South

	18 Sc	outh	27	East	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	19 Sc	outh	27	East	
6	5 <b>20</b>	4	3	2	1
7	8 <b>50</b>	9	10	11	12
18	17	16 18	15	14 <b>82.4</b> 107.7	13 <b>60.7</b>
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

_		20 S	outh	27	<u>East</u>	
ľ	6	5 <b>5</b> 0	4	3	2	1
	7 66	8	9	10	11	12
	18	17	16	15	14 66 74	13
ſ	19	20	21 <b>150</b>	22	23	24
ŀ	30	29	28	27	26	25
ľ	31	32	33	34	35	36

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35 <b>65</b>	36

_	<u>18 S</u>	outh	29	East	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	19 :	South	28	B East	
6	5	4	3	2	1
7	8	9 <b>246</b> 265	10	11	12
18 <b>91</b>	17	16	15 SITE	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	20	South	:	28 East	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28 30	27 <b>35</b>	26	25
31	32	33 <b>25</b>	34	35	36
115		29			19

	19 5	South	2	Beast	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13 123 101
19	20 62.9	21	22	23	24
30	29	28	27	26	25
31	32	33	34 62' 60	35 121 1 <b>10</b>	36 11 <b>5</b>

_	20 Se	outh	29	East	
6	5	4	3 91	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20 62	21	22	23	24
30 <b>52</b> 31	29	28	27	26	25
31	32	33	34	35	36

- 88 New Mexico State Engineers Well Reports
- 105 USGS Well Reports
- **90** Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6) Geology and Groundwater Resources of Eddy County, NM (Report 3)
- 34 NMOCD Groundwater Data
- 123 Field water level
- 143 NMOCD Groundwater map well location

## **APPENDIX C**

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## **Summary Report**

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX 79705

Report Date. May 19, 2010

## Work Order: 10051019

Project Location:	Eddy County, NM
Project Name:	Stephens & Johnson/East Millman TB
Project Number:	114-6400476

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
231048	BG-10'	soil	2010-05-05	00:00	2010-05-07
231049	BG-20'	soil	2010-05-05	00:00	2010-05-07
231050	BG-30'	soil	2010-05-05	00:00	2010-05-07
231051	BG-40'	soil	2010-05-05	00.00	2010-05-07
231052	BG-50'	soil	2010-05-05	00:00	2010-05-07
231053	BG-60'	soil	2010-05-05	00:00	2010-05-07
231054	BH-1 0-1'	soil	2010-05-05	00:00	2010-05-07
231055	BH-1 3-4'	soil	2010-05-05	00:00	2010-05-07
231056	BH-1 7-8'	soil	2010-05-05	00:00	2010-05-07
231057	BH-1 10-11'	soil	2010-05-05	00:00	2010-05-07
231058	BH-1 15-16'	soıl	2010-05-05	00:00	2010-05-07
231059	BH-1 20-21'	soil	2010-05-05	00:00	2010-05-07
231067	BH-2 0-1'	soil	2010-05-05	00:00	2010-05-07
231068	BH-2 3-4'	soil	2010-05-05	00:00	2010-05-07
231069	BH-2 7-8'	soil	2010-05-05	00.00	2010-05-07
231070	BH-2 10-11'	soil	2010-05-05	00:00	2010-05-07
231071	BH-2 15-16'	soil	2010-05-05	00.00	2010-05-07
231072	BH-2 20-21'	soil	2010-05-05	00:00	2010-05-07
231076	BH-3 0-1'	soil	2010-05-06	00:00	2010-05-07
231077	BH-3 3-4'	soil	2010-05-06	00:00	2010-05-07
231078	BH-3 7-8'	soil	2010-05-06	00:00	2010-05-07
231079	BH-3 10-11'	soil	2010-05-06	00:00	2010-05-07
231080	BH-3 15-16'	soil	2010-05-06	00.00	2010-05-07
231081	BH-3 20-21'	soil	2010-05-06	00:00	2010-05-07
231084	BH-4 0-1'	soil	2010-05-06	00.00	2010-05-07
231085	BH-4 3-4'	soil	2010-05-06	00:00	2010-05-07
231086	BH-4 7-8'	soil	2010-05-06	00:00	2010-05-07
231087	BH-4 10-11'	soil	2010-05-06	00:00	2010-05-07
231088	BH-4 15-16'	soil	2010-05-06	00.00	2010-05-07
231089	BH-4 20-21'	soil	2010-05-06	00:00	2010-05-07

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
231095	BH-5 0-1'	soil	2010-05-06	00.00	2010-05-07
231096	BH-5 3-4'	soil	2010-05-06	00.00	2010-05-07
231097	BH-5 7-8'	soil	2010-05-06	00.00	2010-05-07
231098	BH-5 10-11'	soil	2010-05-06	00.00	2010-05-07
231099	BH-5 15-16'	soil	2010-05-06	00.00	2010-05-07
231100	BH-5 20-21'	soil	2010-05-06	00.00	2010-05-07

		]	BTEX		TPH DRO - NEW	TPH GRO
	Benzene	Toluene	Ethylbenzene	Xylene	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
231054 - BH-1 0-1'	0.816	1.35	1.16	3.49	404	1140
231067 - BH-2 0-1'	< 0.0100	<0 0100	$<0\ 0100$	< 0.0100	177	<1.00
231076 - BH-3 0-1'	<0 0100	< 0.0100	< 0.0100	<0 0100	<50 0	< 1.00
231084 - BH-4 0-1'	$<0\ 0100$	< 0.0100	$<0\ 0100$	<0 0100	<50 0	< 1.00
231095 - BH-5 0-1'	<0 0100	< 0.0100	<0 0100	< 0.0100	<50.0	<1 00

#### Sample: 231048 - BG-10'

Param	Flag	$\mathbf{Result}$	$\mathbf{Units}$	RL
Chloride		<200	mg/Kg	4.00

#### Sample: 231049 - BG-20'

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00

#### Sample: 231050 - BG-30'

Param	Flag	$\operatorname{Result}$	$\mathbf{Units}$	$\mathbf{RL}$
Chloride		289	mg/Kg	4.00

#### Sample: 231051 - BG-40'

Param	$\mathbf{Flag}$	$\operatorname{Result}$	Units	RL
Chloride		<200	mg/Kg	4.00

#### Sample: 231052 - BG-50'

Param	Flag	Result	Units	$\mathbf{RL}$
Chloride		<200	mg/Kg	4 00

Report Date. May 19, 2010

Sample: 231053 - BC
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Sample: 231053	- BG-60'			
Param	Flag	Result	Units	$\mathbf{RL}$
Chloride		<200	mg/Kg	4 00
Sample: 231054	- BH-1 0-1'			
Param	Flag	Result	Units	$\mathbf{RL}$
Chloride		<200	mg/Kg	4 00
Sample: 231055	- BH-1 3-4'			
Param	Flag	$\operatorname{Result}$	Units	$\mathbf{RL}$
Chloride		246	mg/Kg	4.00
Sample: 231056	- BH-1 7-8'			
Param	Flag	Result	Units	$\mathbf{RL}$
Chloride	· · · · · · · · · · · · · · · ·	398	mg/Kg	4.00
Sample: 231057				
Param	Flag	Result	Units	RL
Chloride		355	mg/Kg	4 00
Sample: 231058	- BH-1 15-16'			
Param	Flag	Result	Units	RL
Chloride		617	mg/Kg	4.00
Sample: 231059	- BH-1 20-21'			
Param	Flag	Result	Units	$\operatorname{RL}$
Chloride		368	mg/Kg	4.00
Sample: 231067	- BH-2 0-1'			
Param	Flag	Result	Units	$\operatorname{RL}$
Chloride	¥	779	mg/Kg	4.00

Chloride	779	779 mg/Kg		

Report Date. May 19, 2010

#### Sample: 231068 - BH-2 3-4'

Param	Flag	Result	Units	RL
Chloride		913	mg/Kg	4.00
Sample: 231069	- BH-2 7-8'			
Param	$\operatorname{Flag}$	Result	Units	$\operatorname{RL}$
Chloride	1 1005	435	mg/Kg	4 00
Sample: 231070	- BH-2 10-11'			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
Sample: 231071	- BH-2 15-16'			
Param	Flag	Result	Units	RL
Chloride		621	mg/Kg	4.00
Sample: 231072	- BH-2 20-21'			
Param	Flag	Result	Units	RL
Chloride		507	mg/Kg	4.00
Sample: 231076	- BH-3 0-1'			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
Sample: 231077	- BH-3 3-4'			
Param	Flag	Result	Units	$\operatorname{RL}$
Chloride	, , , , , , , , , , , , , , , , , , ,	1260	mg/Kg	4.00
Sample: 231078	- BH-3 7-8'			
Sample: 231078 Param	<b>- BH-3 7-8'</b> Flag	$\operatorname{Result}$	Units	$\mathbf{RL}$

#### Sample: 231079 - BH-3 10-11'

Param	Flag	Result	Units	$\mathbf{RL}$
Chloride		667	mg/Kg	4.00
Sample: 231080 - B	H-3 15-16'			
Param	Flag	Result	Units	$\operatorname{RL}$
Chloride		<200	mg/Kg	4 00
Sample: 231081 - Bl	H-3 20-21'			
Param	Flag	$\operatorname{Result}$	Units	$\operatorname{RL}$
Chloride	0	<200	mg/Kg	4.00
Sample: 231084 - Bl	H-4 0-1'			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
Sample: 231085 - Bl	H-4 3-4'			
Sample: 231085 - Bl Param		Result	Units	RL
	H-4 3-4' Flag	Result 247	Units mg/Kg	RL 4 00
Param	Flag			
Param Chloride Sample: 231086 - Bl	Flag H-4 7-8'	247	mg/Kg	4 00
Param Chloride	Flag			
Param Chloride Sample: 231086 - Bl Param	Flag H-4 7-8' Flag	247 Result	mg/Kg Units	4 00 RL
Param Chloride Sample: 231086 - Bl Param Chloride	Flag H-4 7-8' Flag	247 Result	mg/Kg Units	4 00 RL
Param Chloride Sample: 231086 - Bl Param Chloride Sample: 231087 - Bl	Flag H-4 7-8' Flag H-4 10-11'	247 Result 918	mg/Kg Units mg/Kg	4 00 RL 4.00
Param Chloride Sample: 231086 - Bl Param Chloride Sample: 231087 - Bl Param	Flag H-4 7-8' Flag H-4 10-11' Flag	247 Result 918 Result	mg/Kg Units mg/Kg Units	4 00 RL 4.00 RL
Param Chloride Sample: 231086 - Bl Param Chloride Sample: 231087 - Bl Param Chloride	Flag H-4 7-8' Flag H-4 10-11' Flag	247 Result 918 Result	mg/Kg Units mg/Kg Units	4 00 RL 4.00 RL

Report Date: May 19, 2010

#### Sample: 231089 - BH-4 20-21'

Param	Flag	Result	Units	$\operatorname{RL}$
Chloride		575	mg/Kg	4.00
Sample: 231095	- BH-5 0-1'			
Param	Flag	$\operatorname{Result}$	Units	RL
Chloride	0	<200	mg/Kg	4.00
Sample: 231096	- BH-5 3-4'			
Param	Flag	Result	Units	RL
Chloride		620	mg/Kg	4.00
Sample: 231097 Param	- <b>BH-5 7-8'</b> Flag	Result	Units	RL
Chloride		421	mg/Kg	4.00
Sample: 231098	- BH-5 10-11'			
Param	Flag	Result	Units	$\operatorname{RL}$
Chloride		809	mg/Kg	4.00
Sample: 231099	- BH-5 15-16'			
Param	Flag	Result	Units	RL
Chloride		644	mg/Kg	4.00
Sample: 231100	- BH-5 20-21'			
Param	Flag	Result	Units	$\mathbf{RL}$
Chloride		983	mg/Kg	4.00

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FAX 806 • 794 • 1298 FAX 915 • 585 • 4944 FAX 432 • 689 • 6313

**WBENC:** 237019

 Certifications

 HUB:
 1752439743100-86536

 NCTRCA
 WFWB38444Y0909

**DBE:** VN 20657

### **NELAP** Certifications

Lubbock: T104704219-08-TX LELAP-02003 Kansas E-10317 El Paso: T104704221-08-TX LELAP-02002 Midland: T104704392-08-TX

## Analytical and Quality Control Report

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Mıdland, TX, 79705

Report Date: May 19, 2010

Work Order. 10051019

Project Location.Eddy County, NMProject Name.Stephens & Johnson/East Millman TBProject Number.114-6400476

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
231048	BG-10'	soil	2010-05-05	00:00	2010-05-07
231049	BG-20'	soil	2010-05-05	00:00	2010-05-07
231050	BG-30'	soil	2010-05-05	00.00	2010-05-07
231051	BG-40'	soil	2010-05-05	00.00	2010-05-07
231052	BG-50'	soil	2010-05-05	00.00	2010-05-07
231053	BG-60'	soil	2010-05-05	00.00	2010-05-07
231054	<b>BH-1</b> 0-1'	soil	2010-05-05	00.00	2010-05-07
231055	BH-1 3-4'	soil	2010-05-05	00:00	2010-05-07
231056	BH-1 7-8'	soil	2010-05-05	00.00	2010-05-07
231057	BH-1 10-11'	soil	2010-05-05	00:00	2010-05-07

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
231058	BH-1 15-16'	soil	2010-05-05	00:00	2010-05-07
231059	BH-1 20-21'	soil	2010-05-05	00:00	2010-05-07
231067	BH-2 0-1'	soil	2010-05-05	00.00	2010-05-07
231068	BH-2 3-4'	soil	2010-05-05	00.00	2010-05-07
231069	BH-2 7-8'	soil	2010-05-05	00:00	2010-05-07
231070	BH-2 10-11'	soil	2010-05-05	00:00	2010-05-07
231071	BH-2 15-16'	soil	2010-05-05	00:00	2010-05-07
231072	BH-2 20-21'	soil	2010-05-05	00 00	2010-05-07
231076	BH-3 0-1'	soil	2010-05-06	00:00	2010-05-07
231077	BH-3 3-4'	soil	2010-05-06	00:00	2010-05-07
231078	BH-3 7-8'	soil	2010-05-06	00:00	2010-05-07
231079	BH-3 10-11'	soil	2010-05-06	00:00	2010-05-07
231080	BH-3 15-16'	soil	2010-05-06	00:00	2010-05-07
231081	BH-3 20-21'	soil	2010-05-06	00:00	2010-05-07
231084	BH-4 0-1'	soil	2010-05-06	00:00	2010-05-07
231085	BH-4 3-4'	soil	2010-05-06	00:00	2010-05-07
231086	BH-4 7-8'	soil	2010-05-06	00:00	2010-05-07
231087	BH-4 10-11'	soil	2010-05-06	00.00	2010-05-07
231088	BH-4 15-16'	soil	2010-05-06	00.00	2010-05-07
231089	BH-4 20-21'	soil	2010-05-06	00:00	2010-05-07
231095	BH-5 0-1'	soil	2010-05-06	00:00	2010-05-07
231096	BH-5 3-4'	soil	2010-05-06	00:00	2010-05-07
231097	BH-5 7-8'	soil	2010-05-06	00:00	2010-05-07
231098	BH-5 10-11'	soil	2010-05-06	00.00	2010-05-07
231099	BH-5 15-16'	soil	2010-03-06	00:00	2010-05-07
231100	BH-5 20-21'	soil	2010-05-06	00.00	2010-05-07

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 30 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael april

Dr. Blair Leftwich, Director Dr Michael Abel, Project Manager

#### Standard Flags

 ${\bf B}\,$  - The sample contains less than ten times the concentration found in the method blank.

## Case Narrative

Samples for project Stephens & Johnson/East Millman TB were received by TraceAnalysis, Inc. on 2010-05-07 and assigned to work order 10051019 Samples for work order 10051019 were received intact at a temperature of 4 0 C.

Samples were analyzed for the following tests using their respective methods.

		Prep	Prep	$\mathbf{QC}$	Analysis
Test	Method	Batch	Date	Batch	Date
BTEX	S 8021B	59862	2010-05-11 at 09.20	69934	2010-05-11 at 12:08
Chloride (Titration)	SM 4500-Cl B	60018	2010-05-17 at 08:48	70112	2010-05-17 at $16:58$
Chloride (Titration)	SM 4500-Cl B	60019	2010-05-17 at 08:49	70113	2010-05-17 at 16:58
Chloride (Titration)	SM 4500-Cl B	60020	2010-05-17  at  08.49	70152	2010-05-18 at 15:54
Chloride (Titration)	SM 4500-Cl B $$	60022	2010-05-17 at 12.50	70153	2010-05-18 at $16:01$
TPH DRO - NEW	S 8015 D	59834	2010-05-11 at 10:00	69902	2010-05-11 at 10:00
TPH GRO	S 8015 D	59862	2010-05-11 at 09:20	69936	2010-05-11 at 12:36

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10051019 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension Please contact the laboratory directly if there are any questions regarding this project.

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## **Analytical Report**

#### Sample: 231048 - BG-10'

Laboratory.	Midland				
Analysis	Chloride (Titration)	Analytical Method <sup>.</sup>	SM 4500-Cl B	Prep Method <sup>.</sup>	N/A
QC Batch.	70112	Date Analyzed:	2010-05-17	Analyzed By.	AR
Prep Batch	60018	Sample Preparation:	2010-05-17	Prepared By:	AR
		$\mathbf{RL}$			
Parameter	Flag	Result	Units	Dilution	$\operatorname{RL}$
Chloride		<200	mg/Kg	50	4.00

#### Sample: 231049 - BG-20'

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Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chlorıde (Titration) 70112 60018	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2010-05-17 2010-05-17	Prep Method. Analyzed By: Prepared By <sup>.</sup>	•
		$\operatorname{RL}$			
Parameter	$\mathbf{Flag}$	Result	Units	Dilution	$\mathbf{RL}$
Chloride		<200	mg/Kg	50	4.00

#### Sample: 231050 - BG-30'

Laboratory:	Midland				
Analysis	Chloride (Titration)	Analytical Method	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	70112	Date Analyzed.	2010-05-17	Analyzed By:	AR
Prep Batch.	60018	Sample Preparation:	2010-05-17	Prepared By:	$\mathbf{AR}$
		RL			
Parameter	Flag	$\mathbf{Result}$	Units	Dilution	$\mathbf{RL}$
Chloride		289	mg/Kg	50	4.00

#### Sample: 231051 - BG-40'

Laboratory:	Midland				
Analysis <sup>.</sup>	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method.	N/A
QC Batch:	70112	Date Analyzed:	2010-05-17	Analyzed By:	AR
Prep Batch:	60018	Sample Preparation:	2010-05-17	Prepared By:	AR

continued ...

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#### sample 231051 continued ...

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		$\mathbf{RL}$			
Parameter	Flag	Result	Units	Dilution	RL
		$\mathbf{RL}$			
Parameter	Flag	$\mathbf{Result}$	Units	Dilution	$\mathbf{RL}$
Chloride		<200	mg/Kg	50	4.00

#### Sample: 231052 - BG-50'

Laboratory: Analysis: QC Batch. Prep Batch.	Midland Chloride (Titration) 70112 60018	Analytical Method: Date Analyzed: Sample Preparation	SM 4500-Cl B 2010-05-17 2010-05-17	Prep Method <sup>.</sup> Analyzed By. Prepared By:	$\mathbf{AR}$
		RL			
Parameter	Flag	Result	Units	Dilution	$\operatorname{RL}$
Chloride		<200	mg/Kg	50	4.00

,

#### Sample: 231053 - BG-60'

Laboratory: Analysis QC Batch. Prep Batch:	Midland Chloride (Tıtratıon) 70112 60018	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2010-05-17 2010-05-17	Prep Method: Analyzed By: Prepared By:	AR
		RL			
Parameter	$\mathbf{F}$ lag	$\operatorname{Result}$	Units	Dilution	$\mathbf{RL}$
Chloride		<200	mg/Kg	50	4.00

#### Sample: 231054 - BH-1 0-1'

LaboratoryMidlandAnalysis:BTEXQC Batch:69934Prep Batch:59862		Analytical Method: Date Analyzed: Sample Preparation.	S 8021B 2010-05-11 2010-05-11	Prep Method. Analyzed By: Prepared By:	S 5035 AG AG	
			RL			
Parameter		Flag	Result	Units	Dilution	$\mathbf{RL}$
Benzene			0.816	mg/Kg	20	0.0100
Toluene			1.35	mg/Kg	20	0.0100
Ethylbenzene	9		1.16	mg/Kg	20	0.0100
Xylene			3.49	mg/Kg	20	0.0100

Report Date. May 19, 2010 114-6400476			Work Order: 10051019 Stephens & Johnson/East Millman TB				Page Number: 6 of 30 Eddy County, NM		
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recov Limi	its
Trifluorotolue		、	19.6	mg/Kg	20	20 0	98	60 4 -	
4-Bromofluor	obenzene (4-BFB	)	21.6	mg/Kg	20	20 0	108	43.1 -	158 4
Sample: 23	1054 - BH-1 0-1	Ĺ'							
Laboratory.	Midland							e 1	
Analysis:	Chloride (Titrat	ion)		tical Metho		00-Cl B	-		N/A
QC Batch	70112			Analyzed:	2010-0		•	zed By:	AR
Prep Batch:	60018		Samp	le Preparati	on: 2010-0	5-17	Prepa	red By:	AR
D I	1		RL		<b>T</b> T •,				DI
Parameter Chloride	Flag	r 5	Result <200		Units mg/Kg		Dilution 50		$\frac{\text{RL}}{4.00}$
Laboratory: Analysis: QC Batch: Prep Batch. Parameter	1054 - BH-1 0-1 Mıdland TPH DRO - NE 69902 59834 Flaş	W	Date	lytical Methe Analyzed: ple Preparat	2010-0	05-11	Analy	zed By.	N/A kg kg RL
DRO	1 14	6	404		mg/Kg		1		50.0
Surrogate	Flag	Result	Units	Dilu		Spike Amount	Percent Recovery		overy nits
n-Tricosane		130	mg/Kg	1		100	130		130
Sample: 23 Laboratory <sup>•</sup> Analysis: QC Batch. Prep Batch.	1054 - BH-1 0-1 Midland TPH GRO 69936 59862	L <b>'</b>	Date Ana	l Method. lyzed: reparation:	S 8015 D 2010-05-11 2010-05-11		Prep Me Analyzee Prepared	d By A	
Danamatan	I <b>G</b> I	-	RL		ŤĬ :+ -		Dilution		ът
Parameter	Flag	>	Result		Units		Dilution		$\frac{\text{RL}}{1.00}$
GRO			1140		mg/Kg		20		1.00

Report Date <sup>.</sup> May 19, 2010 114-6400476			Work Order: 10051019 Stephens & Johnson/East Millman TB				Page Number. 7 of 30 Eddy County, NM		
Surrogate			Result	Units	Dilution	Spike Amount		Recovery Limits	
Trifluorotolu			19.8	mg/Kg	20	20 0	99		- 155
4-Bromofluor	robenzene (4-BFB)		24.6	mg/Kg	20	20.0	123	51.7	- 131.1
Sample: 23	1055 - BH-1 3-4'								
Laboratory:	Midland Chloride (Titration)		۸ مرابع مرابع	ytical Method.	SM 4500	רין ד	Dron	Mathad	N/A
Analysis. QC Batch.	70112			Analyzed.	2010-05-		-	Method. zed By <sup>.</sup>	AR
Prep Batch	60018			le Preparation				red By:	AR
			$\mathbf{RL}$						
Parameter	Flag		$\mathbf{Result}$		Units		Dilution		$\mathbf{RL}$
Chloride			246		mg/Kg		50		4.00
Sample: 23 Laboratory: Analysis: QC Batch: Prep Batch:	<b>1056 - BH-1 7-8'</b> Midland Chloride (Titration) 70112 60018		Date	ytical Method. Analyzed: le Preparatior	SM 4500 2010-05- v 2010-05-	17	Analy	Method. zed By <sup>.</sup> red By:	N/A AR AR
D .			RL		<b>TT 1</b>				ът
Parameter Chloride	Flag		Result 398		Units mg/Kg		Dilution 50		$\frac{\text{RL}}{4.00}$
<u>.</u>					iiig/ Kg				4.00
Sample: 23	1057 - BH-1 10-11'								
Laboratory: Analysis. QC Batch: Prep Batch:	Midland Chlorıde (Titratıon) 70112 60018		Date	ytical Method. Analyzed: le Preparatior	SM 4500 2010-05- 1. 2010-05-	17	Analyz	Method: zed By: red By.	N/A AR AR

		$\mathbf{RL}$			
Parameter	Flag	$\mathbf{Result}$	Units	Dilution	$\operatorname{RL}$
Chloride		355	mg/Kg	50	4.00

## Sample: 231058 - BH-1 15-16'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM $4500$ -Cl B	Prep Method:	N/A
QC Batch:	70113	Date Analyzed:	2010-05-17	Analyzed By.	AR
Prep Batch:	60019	Sample Preparation	2010-05-17	Prepared By:	$\mathbf{AR}$
		$\operatorname{RL}$			
Parameter	Flag	Result	Units	Dilution	$\mathbf{RL}$
Chloride		617	mg/Kg	50	4.00

## Sample: 231059 - BH-1 20-21'

Laboratory: Analysis <sup>.</sup> QC Batch. Prep Batch:	Chloride (Titration) 70113	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2010-05-17 2010-05-17	Prep Method: Analyzed By: Prepared By:	$\mathbf{AR}$
		RL			
Parameter	Flag	Result	Units	Dilution	$\mathbf{RL}$
Chloride		368	mg/Kg	<b>5</b> 0	4.00

## Sample: 231067 - BH-2 0-1'

Laboratory. Analysis: QC Batch: Prep Batch.	Midland BTEX 69934 59862		Analytical Date Analy Sample Pre	zed:	S 8021B 2010-05-11 2010-03-11		Prep Me Analyzed Prepared	l By: AG
			RI					
Parameter	Fla	g	Resul	t	Units	1	Dilution	$\mathbf{RL}$
Benzene			< 0.010	)	mg/Kg		1	0.0100
Toluene			< 0.0100	) '	mg/Kg		1	$0\ 0100$
Ethylbenzene			< 0.0100	)	mg/Kg		1	0.0100
Xylene			< 0.0100	)	mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TFT)		1.66	mg/Kg	1	2.00	83	60.4 - 141.2
4-Bromofluor	obenzene (4-BFB)		1.52	mg/Kg		2.00	76	43.1 - 158.4

## Sample: 231067 - BH-2 0-1'

Laboratory	Midland				
Analysis:	Chloude (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method	N/A
QC Batch.	70113	Date Analyzed:	2010-05-17	Analyzed By	AR
Prep Batch:	60019	Sample Preparation:	2010-05-17	Prepared By.	AR
		RL			
Parameter	Flag	Result	Units	Dilution	$\operatorname{RL}$
Chloride		779	mg/Kg	50	4 00

## Sample: 231067 - BH-2 0-1'

Laboratory Analysis: QC Batch: Prep Batch	Mıdland TPH DRO - N 69902 59834	NEW	Date A	cal Method. nalyzed: Preparation:	S 8015 D 2010-05-11 2010-05-11	Prep M Analyz Prepare	
Parameter	F	lag	Result	τ	Units	Dilution	$\mathbf{RL}$
DRO			177	mę	g/Kg	1	50.0
					Spike	Percent	Recovery
Surrogate	$\mathbf{Flag}$	$\operatorname{Result}$	Units	Dilution	Amount	Recovery	Limits
n-Tricosane		124	mg/Kg	1	. 100	124	70 - 130

## Sample: 231067 - BH-2 0-1'

Laboratory: Analysis <sup>.</sup> QC Batch. Prep Batch:	Midland TPH GRO 69936 59862		Analytica Date Ana Sample P		S 8015 D 2010-03-11 2010-05-11		Prep Me Analyzec Preparec	l By: AG
			$\mathbf{RL}$					
Parameter	Flag		$\operatorname{Result}$		$\mathbf{Units}$		Dilution	$\operatorname{RL}$
GRO			<1.00		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)		1 74	mg/Kg	1	2.00	87	50.3 - 155
4-Bromofluor	robenzene (4-BFB)		1.72	mg/Kg	1	2.00	86	$51\ 7\ -\ 131\ 1$

## Sample: 231068 - BH-2 3-4'

Midland				
Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
70113	$\mathbf{Date} \ \mathbf{Analyzed}$	2010-05-17	Analyzed By.	AR
60019	Sample Preparation	2010-05-17	Prepared By.	AR
	$\mathbf{RL}$			
$\mathbf{Flag}$	Result	Units	Dilution	$\mathbf{RL}$
· · · · · · · · · · · · · · · · · · ·	913	mg/Kg	50	4.00
-	Chloride (Titration) 70113 60019	Chloride (Titration)Analytical Method:70113Date Analyzed·60019Sample PreparationRLFlagResult	Chloride (Titration)Analytical Method:SM 4500-Cl B70113Date Analyzed·2010-05-1760019Sample Preparation2010-05-17RLFlagResultUnits	Chloride (Titration)Analytical Method:SM 4500-Cl BPrep Method:70113Date Analyzed·2010-05-17Analyzed By.60019Sample Preparation2010-05-17Prepared By.RLFlagResultUnitsDilution

## Sample: 231069 - BH-2 7-8'

Laboratory. Analysis. QC Batch: Prep Batch:	Midland Chlorıde (Tıtration) 70113 60019	Analytical Method: Date Analyzed. Sample Preparation:	SM 4500-Cl B 2010-05-17 2010-05-17	Prep Method: Analyzed By <sup>.</sup> Prepared By	N/A AR AR
		RL			
Parameter	Flag	$\operatorname{Result}$	Units	Dilution	$\mathbf{RL}$
Chloride		435	mg/Kg	50	4.00

## Sample: 231070 - BH-2 10-11'

Laboratory.	Midland				
Analysis	Chloride (Titration)	Analytical Method.	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	70113	Date Analyzed:	2010-05-17	Analyzed By	$\mathbf{AR}$
Prep Batch:	60019	Sample Preparation:	2010-05-17	Prepared By:	AR
		$\operatorname{RL}$			
Parameter	Flag	Result	Units	Dilution	$\operatorname{RL}$
Chloride		<200	mg/Kg	50	4.00

## Sample: 231071 - BH-2 15-16'

Laboratory <sup>.</sup> Analysis <sup>.</sup> QC Batch Prep Batch:	Midland Chloride (Titratıon) 70113 60019	Analytical Method: Date Analyzed Sample Preparation	SM 4500-Cl B 2010-05-17 2010-05-17	Prep Method: Analyzed By: Prepared By	'
Demonstern	Elan	RL Bosylt	Unito	Dilution	рт
Parameter	Flag	Result	Units	Dilution	$\frac{\mathrm{RL}}{4.00}$
Chloride		621	mg/Kg	50	4.00

## Sample: 231072 - BH-2 20-21'

Laboratory.	Midland				
Analysis.	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method	N/A
QC Batch:	70113	Date Analyzed.	2010-05-17	Analyzed By:	AR
Prep Batch	60019	Sample Preparation:	2010-05-17	Prepared By:	$\mathbf{AR}$
		$\operatorname{RL}$			
Parameter	Flag	Result	Units	Dilution	$\mathbf{RL}$
Chloride		507	mg/Kg	50	4.00

#### Sample: 231076 - BH-3 0-1'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland BTEX 69934 59862		Analytical Date Analy Sample Pre	zed:	S 8021B 2010-05-11 2010-05-11		Prep Me Analyzee Preparec	d By:	S 5035 AG AG
			RI						
Parameter	$\mathbf{Flag}$		Result	t	Units	Ι	Dilution		$\mathbf{RL}$
Benzene			< 0.0100	)	mg/Kg		1		0.0100
Toluene			< 0.0100	)	mg/Kg		1		0 0100
Ethylbenzene	ġ.		<0 0100	)	mg/Kg		1		0.0100
Xylene			< 0.0100	)	mg/Kg		1		0.0100
						Spike	Percent	Rec	overy
Surrogate		Flag	$\operatorname{Result}$	Units	Dilution	Amount	Recovery	Li	mits
Trifluorotolu	ene (TFT)		1 23	mg/Kg	1	2.00	62	60.4	- 141.2
4-Bromofluor	obenzene (4-BFB)		1.07	mg/Kg	1	2.00	54	43.1	- 158.4

## Sample: 231076 - BH-3 0-1'

Laboratory	Midland				
Analysis <sup>.</sup>	Chloride (Titration)	Analytical Method.	SM 4500-Cl B	Prep Method.	N/A
QC Batch <sup>.</sup>	70113	Date Analyzed:	2010-05-17	Analyzed By:	AR
Prep Batch:	60019	Sample Preparation:	2010-05-17	Prepared By.	$\mathbf{AR}$
		RL			
Parameter	$\operatorname{Flag}$	Result	Units	Dilution	$\operatorname{RL}$
Chloride		<200	mg/Kg	50	4.00
					·····

## Sample: 231076 - BH-3 0-1'

Laboratory:	Midland						
Analysis.	TPH DRO - N	IEW	Analyti	cal Method:	S 8015 D	Prep M	lethod∙ N/A
QC Batch:	69902		Date A	nalyzed.	2010-05-11	Analyz	ed By: kg
Prep Batch:	59834		Sample	Preparation:	2010-05-11	Prepare	· -
			$\mathbf{RL}$				
Parameter	$\mathbf{F}$	lag	$\mathbf{Result}$		Units	Dilution	$\operatorname{RL}$
DRO			< 50.0	m	g/Kg	1	50.0
					$\mathbf{Spike}$	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane		88.9	mg/Kg	1	100	89	70 - 130

## Sample: 231076 - BH-3 0-1'

Laboratory. Analysis <sup>.</sup> QC Batch. Prep Batch.	Midland TPH GRO 69936 59862		Analytical Date Ana Sample Pr		S 8015 D 2010-05-11 2010-05-11		Prep Me Analyzeo Prepareo	l By: AG
			$\mathbf{RL}$					
Parameter	$\mathbf{Flag}$		$\mathbf{Result}$		$\mathbf{Units}$		Dilution	$\mathbf{RL}$
GRO			<1.00		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)		1.23	mg/Kg	1	2.00	62	50.3 - 155
	obenzene (4-BFB)		1.22	mg/Kg	1	2.00	61	51.7 - 131 1

## Sample: 231077 - BH-3 3-4'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch	70113	Date Analyzed:	2010-05-17	Analyzed By:	AR
Prep Batch	60019	Sample Preparation	: 2010-05-17	Prepared By.	$\mathbf{AR}$
		DI			
		$\mathbf{RL}$			
Parameter	Flag	$\mathbf{Result}$	Units	Dilution	$\operatorname{RL}$
Chloride		1260	mg/Kg	50	4.00

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## Sample: 231078 - BH-3 7-8'

Laboratory:	Midland				
Analysis.	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	70152	Date Analyzed:	2010-05-18	Analyzed By:	AR
Prep Batch.	60020	Sample Preparation:	2010-05-17	Prepared By.	$\mathbf{AR}$
		RL			
Parameter	Flag	Result	Units	Dilution	$\operatorname{RL}$
Chloride		971	mg/Kg	50	4.00

## Sample: 231079 - BH-3 10-11'

Laboratory: Analysis: QC Batch: Prep Batch <sup>.</sup>	Midland Chlorıde (Titration) 70152 60020	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2010-05-18 2010-05-17	Prep Method: Analyzed By Prepared By:	AR
		RL			
Parameter	$\operatorname{Flag}$	$\mathbf{Result}$	Units	Dilution	$\mathbf{RL}$
Chloride		667	mg/Kg	50	4.00

#### Sample: 231080 - BH-3 15-16'

N/A
AR
$\mathbf{AR}$
$\mathbf{RL}$
4.00

#### Sample: 231081 - BH-3 20-21'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 70152 60020	Analytical Method. Date Analyzed: Sample Preparation:	SM 4500-Cl B 2010-05-18 2010-05-17	Prep Method: Analyzed By: Prepared By:	AR
		RL			
Parameter	Flag	Result	Units	Dilution	$\mathbf{RL}$
Chloride		<200	mg/Kg	50	4.00

## Sample: 231084 - BH-4 0-1'

Laboratory.	Midland							
Analysis	BTEX		Analytical	Method.	S 8021B		Prep Me	ethod: S 5035
QC Batch:	69934		Date Anal	yzed.	2010-05-11		Analyze	d By AG
Prep Batch.	59862		Sample Pr	eparation.	2010-05-11		Prepare	d By: AG
			RI	Ĺ				
Parameter	F	lag	Resul	t	Units		Dilution	$\operatorname{RL}$
Benzene			< 0.010	0	mg/Kg		1	0.0100
Toluene			< 0.010	0	mg/Kg		1	0.0100
Ethylbenzene	1		< 0.010	0	mg/Kg		1	0.0100
Xylene			<0 010	0	mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TFT)		1.31	mg/Kg	1	2.00	66	60.4 - 141.2
4-Bromofluor	obenzene (4-BF)	B)	0.914	mg/Kg	1	2.00	46	43.1 - 158.4

## Sample: 231084 - BH-4 0-1'

Laboratory: Analysis: QC Batch. Prep Batch:	Midland Chloride (Titration) 70152 60020	Analytical Method: Date Analyzed. Sample Preparation:	SM 4500-Cl B 2010-05-18 2010-05-17	Prep Method. Analyzed By. Prepared By.	N/A AR AR
		$\operatorname{RL}$			
Parameter	$\operatorname{Flag}$	Result	Units	Dilution	$\operatorname{RL}$
Chloride		<200	mg/Kg	50	4.00

## Sample: 231084 - BH-4 0-1'

Laboratory:	Midland						
Analysis:			Analytical Method: S 8015 D Date Analyzed: 2010-05-11		S 8015 D	Prep M	fethod. N/A
QC Batch.					2010-05-11	Analyz	ed By: kg
Prep Batch: 59834 Sample Preparation: 2010-05-11				Prepared By. kg			
			$\mathbf{RL}$				
Parameter	F	ag	Result	U	nıts	Dilution	$\operatorname{RL}$
DRO			<50.0	mg	/Kg	1	50.0
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane		89.7	mg/Kg	1	100	90	70 - 130

## Sample: 231084 - BH-4 0-1'

-								
Laboratory: Analysis. QC Batch Prep Batch	Mıdland TPH GRO 69936 59862		Date Ana	l Method: lyzed: reparation <sup>.</sup>	S 8015 D 2010-05-11 2010-05-11		Prep Me Analyze Prepare	d By: AG
			$\operatorname{RL}$					
Parameter	Flag		$\operatorname{Result}$		Units		Dilution	RI
GRO			<1.00		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolue	ene (TFT)		1.37	mg/Kg	1	2.00	68	50.3 - 155
	robenzene (4-BFB)		1.07	mg/Kg	1	2.00	54	51.7 - 131
Sample: 23	1085 - BH-4 3-4'							
Laboratory:	Midland		<b>A1</b>	(1	1 634 4700		D	
Analysis.	Chloride (Titration) 70152		•	rtical Metho Analyzed:	d: SM 4500 2010-05-1		-	Method: ´N/A zed By∙ AR
QC Batch: Prep Batch <sup>.</sup>	60020			Anaryzeu: le Preparati				red By. AR
i tep batch	00020		Jamp	к ттератан	.011, 2010-00-	11	r repa	itu by. Alt
			$\operatorname{RL}$					

		nL			
Parameter	Flag	Result	Units	Dilution	$\operatorname{RL}$
Chloride		247	mg/Kg	50	4 00

## Sample: 231086 - BH-4 7-8'

Laboratory: Analysis. QC Batch: Prep Batch:	Chloride (Titration) 70152	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2010-05-18 2010-05-17	Prep Method: Analyzed By: Prepared By:	AR
		$\mathbf{RL}$			
Parameter	Flag	Result	Units	Dilution	$\mathbf{RL}$
Chloride		918 1	mg/Kg	50	4.00

## Sample: 231087 - BH-4 10-11'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method.	N/A
QC Batch:	70152	Date Analyzed:	2010-05-18	Analyzed By	$\mathbf{AR}$
Prep Batch:	60020	Sample Preparation:	2010-05-17	Prepared By:	$\mathbf{AR}$

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Report Date <sup>-</sup> May 19, 2010 114-6400476		Work Order. 1005 Stephens & Johnson/East	Page Number 16 of 30 Eddy County, NM		
Parameter	Flag	${f RL}$ Result	Units	Dilution	RL
Chloride		1270 I	50	4.00	
Sample: 23	1088 - BH-4 15-16'				
Laboratory: Analysis: QC Batch <sup>.</sup> Prep Batch:	Midland Chloride (Titration) 70152 60020	Analytical Method. Date Analyzed: Sample Preparation.	SM 4500-Cl B 2010-05-18 2010-05-17	Prep Method: Analyzed By: Prepared By:	N/A AR AR
Parameter	Flag	$\operatorname{RL}$ Result	Units	Dilution	$\mathbf{RL}$
Chloride			ng/Kg	50	4.00
Sample: 23	1089 - BH-4 20-21'				
Laboratory: Analysis QC Batch: Prep Batch <sup>.</sup>	Midland Chlorıde (Titration) 70152 60020	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2010-05-18 2010-05-17	Prep Method: Analyzed By: Prepared By:	N/A AR AR

		$\operatorname{RL}$			
Parameter	Flag	$\mathbf{Result}$	Units	Dilution	$\operatorname{RL}$
Chloride		575	mg/Kg	50	4.00

## Sample: 231095 - BH-5 0-1'

Analysis: QC Batch:	Midland BTEX 69934 59862		Analytical Date Analy Sample Pre	zed:	S 8021B 2010-05-11 2010-05-11		Prep Me Analyze Preparec	d By: AG
			RI	L				
Parameter	Flag		Resul	t	Units		Dilution	$\operatorname{RL}$
Benzene			< 0.010	)	mg/Kg		1	0 0100
Toluene			< 0.010	)	mg/Kg		1	0.0100
Ethylbenzene			< 0.0100	)	mg/Kg		1	0.0100
Xylene			< 0.0100	)	mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	$\mathbf{Result}$	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ne (TFT)		2.02	mg/Kg	1	2.00	101	60.4 - 141.2
4-Bromofluoro	obenzene (4-BFB)		1.84	mg/Kg	1	2.00	92	43.1 - 158.4

## Sample: 231095 - BH-5 0-1'

Laboratory <sup>.</sup> Analysis: QC Batch: Prep Batch.	Midland Chlorıde (Tıtration) 70153 60022	Analytical Method. Date Analyzed Sample Preparation <sup>.</sup>	SM 4500-C1 B 2010-05-18 2010-05-17	Prep Method: Analyzed By <sup>.</sup> Prepared By.	N/A AR AR
Parameter	Flag	RL Result	Units	Dilution	$\mathbf{RL}$
Chloride		<200	mg/Kg	50	4.00

## Sample: 231095 - BH-5 0-1'

Laboratory: Analysis: QC Batch Prep Batch:	Midland TPH DRO - N 69902 59834	IEW	Date Ar	cal Method: nalyzed: Preparation:	S 8015 D 2010-05-11 2010-05-11	Prep M Analyz Prepare	ed By: kg
Parameter DRO	F	lag	RL <u>Result</u> <50.0		Units g/Kg	Dilution	RL 50 0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	¥	88.1	mg/Kg	1	100	88	70 - 130

## Sample: 231095 - BH-5 0-1'

Laboratory: Analysis: QC Batch. Prep Batch:	Midland TPH GRO 69936 59862		Date Ana	l Method <sup>.</sup> lyzed: reparation:	S 8015 D 2010-05-11 2010-05-11		Prep Me Analyzee Preparee	l By∙ AG
			$\operatorname{RL}$					
Parameter	Flag		Result		Units		Dilution	$\mathbf{RL}$
GRO			<1.00		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolue	ene (TFT)		2.08	mg/Kg	1	2.00	104	50.3 - 155
4-Bromofluor	obenzene (4-BFB)		2.06	mg/Kg	1	$2\ 00$	103	517-131.1

## Sample: 231096 - BH-5 3-4'

Laboratory:	Midland				
Analysis.	Chloride (Titration)	Analytical Method	SM 4500-Cl B	Prep Method:	N/A
QC Batch.	70153	Date Analyzed:	2010-05-18	Analyzed By.	AR
Prep Batch	60022	Sample Preparation	2010-05-17	Prepared By.	$\mathbf{AR}$
		$\operatorname{RL}$			
Parameter	Flag	Result	Units	Dilution	$\mathbf{RL}$
Chloride		620	mg/Kg	50	4.00

.

## Sample: 231097 - BH-5 7-8'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 70153 60022	Analytical Method. Date Analyzed: Sample Preparation:	SM 4500-Cl B 2010-05-18 2010-05-17	Prep Method: Analyzed By: Prepared By:	$\mathbf{A}\mathbf{R}$
		$\mathbf{RL}$			
Parameter	Flag	$\mathbf{Result}$	Units	Dilution	$\mathbf{RL}$
Chloride		421	mg/Kg	50	4.00

## Sample: 231098 - BH-5 10-11'

Laboratory:	Mıdland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch.	70153	Date Analyzed.	2010-05-18	Analyzed By:	$\mathbf{AR}$
Prep Batch <sup>.</sup>	60022	Sample Preparation:	2010-05-17	Prepared By:	$\mathbf{AR}$
		$\mathrm{RL}^{i}$			,
Parameter	Flag	Result	Units	Dilution	$\operatorname{RL}$
Chloride		809 1	ng/Kg	50	4.00

## Sample: 231099 - BH-5 15-16'

Laboratory. Analysis: QC Batch Prep Batch:	Midland Chloride (Titration) 70153 60022	Analytical Method. Date Analyzed <sup>.</sup> Sample Preparation:	SM 4500-Cl B 2010-05-18 2010-05-17	Prep Method Analyzed By: Prepared By.	,
		RL			
Parameter	Flag	Result	Units	Dilution	$\mathbf{RL}$
Chloride		<b>644</b>	ng/Kg	50	4.00

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Sample: 231	100 - BH	-5 20-21'						
0	Midland							
Analysis:	Chloride ('	Titration)		tıcal Metho		00-Cl B	-	Method: N/A
QC Batch	70153		Date Analyzed 2010-05-18 Sample Preparation 2010-05-17			•	zed By AR	
Prep Batch.	60022		Sampl	e Preparatio	on 2010-0	15-17	Prepa	red By. AR
			$\mathbf{RL}$					
Parameter		Flag	Result		Units		Dilution	RI
Chloride			983		mg/Kg		50	4.00
Method Bla	nk (1)	QC Batch: 69902	2					
QC Batch:	69902		Date An	alyzed: 20	)10-05-11		Ana	lyzed By: kg
	59834		QC Preparation: 2010-05-11					pared By kg
				MDL				
Parameter		Flag		Result		U	nits	RI
DRO				< 5.86		m	g/Kg	50
						Carla	Deveent	D
Surrogate	Flag	$\operatorname{Result}$	Units	Dilu	100	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Tag	78.8	mg/Kg	1		100	79	70 - 130
Method Bla	nk (1)	QC Batch: 69934	L					
QC Batch.	69934	-	Date Ana	Jyzod 20	10-05-11		Anal	yzed By. AG
-	59862		QC Prepa	5	10-05-11			ared By: AG
			<b>4</b> • • • • • • •					
				MD				
Parameter		Flag		Resu			Jnits	RL
Benzene				< 0.004			g/Kg	0.01
Toluene Ethechonnen				< 0.003			ng/Kg	0.01
Ethylbenzene Xylene				<0.0024 <0.006			ng/Kg ng/Kg	0.01 0 01
Луюне				~0.000		11.	5/ 125	
						Spike	Percent	Recovery
Cumporato		$\mathbf{Flag}$	$\mathbf{Result}$	Units	Dilution	Amount	Recovery	Limits
Surrogate								
Trifluorotolue 4-Bromofluoro	· /		$\begin{array}{c} 2.01 \\ 1 56 \end{array}$	mg/Kg mg/Kg	1 1	$\begin{array}{c} 2.00\\ 2\ 00 \end{array}$	100 78	64 9 - 142.7 43.9 - 141.9

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Report Date: May 19, 2 114-6400476		Work Order: 10051019 Stephens & Johnson/East Millman TB			Page Number: 20 of 30 Eddy County, NM		
Method Blank (1)	QC Batch. 69936						
QC Batch: 69936 Prep Batch. 59862		Date Analyzed: QC Preparation	2010-05-11 · 2010-05-11		Analyzed By: Prepared By.	AG AG	
		Ν	<b>ADL</b>				
Parameter	Flag		esult	Units		$\mathbf{RL}$	
GRO		<0	.396	mg/Kg		1	
Surrogate	Flag	Result Uni	ts Dilutio	Spike on Amount		covery imits	
Trifluorotoluene (TFT)	0	$\frac{1000 \text{ mg/}}{2.00 \text{ mg/}}$		2.00	v	2 - 145	
4-Bromofluorobenzene (	4-BFB)	1.74 mg/		2.00		- 120.5	
Method Blank (1) QC Batch: 70112 Prep Batch: 60018	QC Batch: 70112	Date Analyzed: QC Preparation			Analyzed By. Prepared By:		
Dependent	Eloa		IDL	TT::to		זמ	
Parameter Chloride	Flag		esult 2.18	Units mg/Kg			
						<b>±</b>	
Method Blank (1)	QC Batch: 70113						
QC Batch: 70113		Date Analyzed.	2010-05-17		Analyzed By.	AR	
Prep Batch: 60019		QC Preparation			Prepared By:		
-							
Parameter	Flag		IDL esult	Units		$\mathbf{RL}$	
Chloride	Tag		2.18	mg/Kg		4	
	QC Batch: 70152			0,0			
Method Blank (1)	QU Datch: 10132						
QC Batch: 70152 Prep Batch: 60020		Date Analyzed: QC Preparation	2010-05-18 . 2010-05-17		Analyzed By Prepared By:	AR AR	
		Ν	1DL				
Parameter	Flag	Re	esult	Units		$\operatorname{RL}$	
Chloride		<	2.18	mg/Kg		4	

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#### Method Blank (1) QC Batch: 70153

QC Batch. Prep Batch:	$70153 \\ 60022$		Date Analyzed: QC Preparation:			Analyzed By Prepared By:	
			M	DL			
Parameter		Flag	Res	ult	Units		$\mathbf{RL}$
Chloride			<2	.18	mg/Kg		4

## Laboratory Control Spike (LCS-1)

QC Batch Prep Batch:			d: 2010-05-11 on: 2010-05-11		Analyzed By: kg Prepared By. kg
		LCS	Spike	Matrix	Bec

	LCS			Spike	Matrix		Rec.
Param	$\mathbf{Result}$	Units	Dil	Amount	$\mathbf{Result}$	Rec.	Limit
DRO	255	mg/Kg	1	250	< 5.86	102	57.4 - 133 4

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	$\operatorname{Result}$	Rec.	$\mathbf{Limit}$	RPD	Limit
DRO	266	mg/Kg	1	250	< 5.86	106	57.4 - 133 4	4	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	$\operatorname{Result}$	$\operatorname{Result}$	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Tricosane	85.4	88.7	mg/Kg	1	100	85	89	70 - 130

## Laboratory Control Spike (LCS-1)

QC Batch:	69934	Date Analyzed:	2010-05-11	Analyzed By.	$\mathbf{AG}$
Prep Batch:	59862	QC Preparation:	2010-05-11	Prepared By.	$\mathbf{AG}$

Param	$\begin{array}{c} { m LCS} \\ { m Result} \end{array}$	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec Limit
Benzene	1.98	mg/Kg	1.	2.00	<0 00410	99	75.4 - 115.7
Toluene	1.97	mg/Kg	1	2.00	$<0\ 00310$	98	78.4 - 113.6
Ethylbenzene	1.90	mg/Kg	1	2.00	< 0.00240	95	76 - 114.2
Xylene	$5\ 70$	mg/Kg	1	6.00	< 0.00650	95	76.9 - 113.6

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

Param	$\begin{array}{c} \mathrm{LCSD} \\ \mathrm{Result} \end{array}$	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.94	mg/Kg	1	2.00	< 0.00410	97	75.4 - 115.7	2	20

continued ...

control spikes continued . .

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dıl.	Amount	$\operatorname{Result}$	Rec.	Limit	RPD	Limit
Toluene	1 93	mg/Kg	1	2.00	< 0.00310	96	784 - 113.6	2	20
Ethylbenzene	1.88	mg/Kg	1	2.00	< 0.00240	94	76 - 114 2	1	20
Xylene	5.63	mg/Kg	1	6 00	< 0.00650	94	76.9 - 113.6	1	20

Percent recovery is based on the spike result  $\ {\rm RPD}$  is based on the spike and spike duplicate result

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	$\mathbf{Result}$	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	2.00	1.86	mg/Kg	1	2.00	100	93	65 - 142 9
4-Bromofluorobenzene (4-BFB)	1 88	1 75	mg/Kg	1	2.00	94	88	43.8 - 144.9

#### Laboratory Control Spike (LCS-1)

QC Batch:	69936	Date Analyzed:	2010-05-11	Analyzed By.	AG
Prep Batch	59862	QC Preparation:	2010-05-11	Prepared By:	AG

	LCS			Spike	Matrix		Rec.
Param	$\operatorname{Result}$	Units	Dıl.	Amount	$\mathbf{Result}$	Rec.	Limit
GRO	15.2	mg/Kg	1	20.0	< 0.396	76	52.5 - 114.3

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

	LCSD			Spike	Matrix		Rec.		$\operatorname{RPD}$
Param	$\operatorname{Result}$	Units	Dıl	Amount	Result	Rec	Lımıt	RPD	Limit
GRO	15.8	mg/Kg	1	20.0	< 0.396	79	52 5 - 114 3	4	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	$\operatorname{Result}$	$\operatorname{Result}$	Units	Dil	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	2.03	1.80	mg/Kg	1	2.00	102	90	66.2 - 148 7
4-Bromofluorobenzene (4-BFB)	2.00	1.78	mg/Kg	1	2.00	100	89	64 1 - 127.4

#### Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch:	70112 60018		ate Analyzed: C Preparation:	2010-05-1' 2010-05-1'			•	l By: AR By. AR
Param		$\begin{array}{c} \mathrm{LCS} \\ \mathrm{Result} \end{array}$	Units	Dil.	Spike Amount	Matrıx Result	Rec.	Rec. Limit
Chloride		98.1	mg/Kg	1	100	<2.18	98	85 - 115

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

Param Chloride Percent recovery is based on the	LCSD Result 99.7	Units	s Dil.	Spike	Matrix		Rec.		RPD
	99.7		. 2	Amount	$\mathbf{Result}$	Rec.	Lımit	RPD	Limit
Percent recovery is based on the		mg/K	g 1	100	<2.18	100	85 - 115	2	20
	e spike result.	RPD 15	based on t	the spike and	l spike dup	olicate r	esult.		
Laboratory Control Spike (	LCS-1)								
QC Batch <sup>.</sup> 70113		Date A	nalyzed	2010-05-17			A	nalyzed By	: AR
Prep Batch 60019			eparation:	2010-05-17				repared By	
	LC	CS			Spike	Ma	trix		Rec
Param		sult	Units	Dıl.	Amount			Rec.	Limit
Chloride	98	5 4	mg/Kg	1	100	<2	.18	98	85 - 115
Percent recovery is based on the	e spike result.	RPD is	based on t	-	l spike dur	olicate r	esult.		
_	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units		Amount	Result	Rec.	Limit	RPD	Limit
Chloride	101	mg/K	g 1	100	<2 18	101	85 - 115	3	20
Laboratory Control Spike ( QC Batch: 70152 Prep Batch: 60020	·	QC Pro	.nalyzed <sup>.</sup> eparation:	2010-05-18 2010-05-17	0.11		Pı	nalyzed By repared By	r: AR
Param	L( Res		Units	Dil	Spike Amount	Ma Res		Rec.	Rec. Lımıt
Chloride	99		mg/Kg	1	100		.18		85 - 115
Percent recovery is based on the					· · · ·				
	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	5 Dil	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	101	mg/K		100	<2.18	101	85 - 115		20
Percent recovery is based on the	e spike result	RPD is	based on t	the spike and	l spike dup	olicate r	esult.		
Laboratory Control Spike (	LCS-1)								
	LCS-1)	Data A	nalwood	2010.05.19			٨٠	nalwood Pr	
Laboratory Control Spike (2 QC Batch. 70153 Prep Batch: 60022	LCS-1)		nalyzed <sup>.</sup> eparation.	2010-05-18 2010-05-17				nalyzed By repared By	

Report Date May 19, 20 114-6400476	)10	SI			er· 1005101 n/East Mi	19 ıllman TB				24 of 30 unty, NM
control spikes continued .	•••									
_		LC				Spike	Mat			Rec
Param		Resu	ult	Units	Dil.	Amount	Res	ult R	lec.	Lımit
		LC	S			Spike	Mat	rix		Rec.
Param		Resi		Units	Dil.	Amount			lec.	Limit
Chloride		99		mg/Kg	1	100	<2.		99	85 - 115
Percent recovery is based	on the s	· · · · · · · · · · · · · · · · · · ·			the spike					
		-								DDD
D		LCSD	TT 11	נית	Spike	Matrix Barult	<b>D</b>	Rec.	חתת	RPD
Param Chlomdo		Result	Units	Dil.	Amount		Rec.	Limit	RPD	Limit
Chloride Percent recovery is based	_	102	mg/Kg		100	<2.18	102	85 - 115	3	20
Matrix Spike (MS-1) QC Batch: 69902 Prep Batch: 59834	Spiked	Sample: 23	Date A	nalyzed: paration	2010-05 : 2010-05				nalyzed cepared 1	
Param		MS Resul		Units	Dıl	Spike Amount	Matrix Result			Rec. Limıt
DRO		203		g/Kg	1	250	7.29	78		$\frac{2}{2} - 167.1$
Percent recovery is based	on the s									
1 01 001 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	511 UIC 0]	-		50,500 OII						
D		MSD	<b>TT N</b>	D.1	Spike	Matrix	ъ	Rec		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO		······································	mg/Kg	1	250	7.29		5 2 - 167.1	3	20
Percent recovery is based	on the s	pike result.	RPD 18	based on	the spike	and spike du	uplicate re	sult.		
	MS	MSD				Spike	MS	MS	D	Rec
Surrogate	Result	Result	U	nits	Dil.	Amount	$\operatorname{Rec}$	. Re	c.	Limit
n-Tricosane	82.8	83.2	m	g/Kg	1	100	83	83	3	70 - 130
<b>Matrix Spike (MS-1)</b> QC Batch: 69934 Prep Batch <sup>.</sup> 59862	Spiked	Sample. 23	Date Ar	nalyzed: paration	2010-05- 2010-05-				alyzed E epared B	
		MS				Spike	Matrix			Rec.
Param		Result	t U	nits	Dıl.	Amount	Result	Rec.		Limit
Benzene		2.01		g/Kg	1	2.00	< 0.00410			7 - 140.7
Toluene		2.04		g/Kg	1	2.00	< 0.0031			4 - 146.6
Totache			<u>,</u>	<del>v</del>						
Ethylbenzene		2.01	me	g/Kg	1	2.00	< 0.00240	0 100	62.	1 - 141.6

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Report Date May 19, 2010 114-6400476				rder: 10051( nson/East M		in TB			Page Number 25 of 30 Eddy County, NM		
	MSD			Spike	Ms	atrix		R	ec.		RPD
Param	Result	Units	Dıl.	Amount		sult	Rec.		mit	RPD	Limit
Benzene	2.27	mg/Kg		2.00		00410	114		- 140 7	12	20
Toluene	2.30	mg/Kg		2.00 2.00		00310	115		- 146.6	$12 \\ 12$	20 20
Ethylbenzene	2.00 2.27	mg/Kg		2.00 2.00		00240	114		- 141.6	$12^{12}$	$\frac{20}{20}$
Xylene	6 82	mg/Kg		6.00		00650	114		- 142.7	$12 \\ 12$	$\frac{20}{20}$
Percent recovery is based on the sp	pike result			on the spike	and	spike du	plicate	e result.	,		
	M	s i	MSD			Spi	ke	MS	MSD		Rec.
Surrogate	Res		lesult	Units	Dil	Amo		Rec.	Rec.		imit
Trifluorotoluene (TFT)	1.5		1.44	mg/Kg	1	2		76	72	61.7	- 139.6
4-Bromofluorobenzene (4-BFB)	1.4	4	1.34	mg/Kg	1	2		72	67	49.6	- 146.7
Matrix Spike (MS-1) Spiked QC Batch: 69936 Prep Batch: 59862	Sample: :	Date .	Analyzec reparatic							zed By ared By	
	Μ					Spike		atrix			Rec.
Param	Res		Units	Dil		mount		esult	Rec.		Limit
GRO	28	8.6	mg/Kg	1		20.0	8	3 37	101	10	- 198.3
Percent recovery is based on the sp	pike result	RPD 1	s based o	on the spike	and	spike du	plicate	e result			
	MSD			Spike	N	latrix		R	ec.		RPD
Param	Result	Unit	s Dil	. Amount	t F	Result	Rec.	Li	mıt	RPD	Limit
GRO	22.9	mg/K	Kg 1	20.0		8.37	114	10 -	198.3	22	20
Percent recovery is based on the s	pike result	. RPD i	s based o	on the spike	and	spike du	plicate	e result			
	М	S	MSD			Sp	ike	MS	MSD	)	Rec.
Surrogate	Res		Result	Units	Dil	-	ount	Rec.	Rec.		Limit
Trifluorotoluene (TFT)	1.8	37	1.56	mg/Kg	1	· ··· · · · · · · · · · · · · · · · ·	2	94	78	65	5 - 143
4-Bromofluorobenzene (4-BFB)	2.2	18	1.68	mg/Kg	1		2	109	84	58	.6 - 140
<b>Matrix Spike (MS-1)</b> Spiked QC Batch 70112 Prep Batch: 60018	Sample: 2	Date .	Analyzed reparatic							vzed By ared By	
QC Batch 70112	-	Date A QC Pi	•		5-17	Snike	λ	Лаtrix			. AR
QC Batch 70112	Ν	Date .	•		5-17	Spike Amount		Matrıx Result		ared By	

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<sup>1</sup>MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control

Report Date <sup>.</sup> May 19, 2010 114-6400476				r· 10051019 n/East Milln	nan TB	·=	<u> </u>		26 of 30 nty, NM
Param	MSD Result	Units	Dil	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Lımit
Chloride	10400	mg/Kg	100	10000	355	100	85 - 115	2	20
Percent recovery is based on the	spike result.	RPD is b	based on t	the spike and	l spike du	plicate r	esult.		
Matrix Spike (MS-1) Spike	ed Sample: 2	31077							
QC Batch: 70113 Prep Batch: 60019		Date An QC Prep	•	2010-05-17 2010-05-17				alyzed By pared By	
	М				Spike		trix		Rec.
Param	Res		Units		Amount			ec.	Limit
Chloride	113		ng/Kg	100	10000			00	85 - 115
Percent recovery is based on the	spike result.	RPD is t	based on t	the spike and	l spike du	plicate r	esult.		
	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dıl.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	11400	mg/Kg	100	10000	1260	101	85 - 115	1	20
Matrix Spike (MS-1) Spike QC Batch: 70152 Prep Batch: 60020	ed Sample. 2	31089 Date An QC Prep	•	2010-05-18 2010-05-17				alyzed By pared By	
	М	IS			Spike	Ma	trix		Rec.
Param	Res		Units	Dil.	Amount			ec.	Limit
Chloride	108	<u>300 r</u>	ng/Kg	100	10000	5	75 1	02	85 - 115
Percent recovery is based on the	spike result.	RPD is b	based on a	the spike and	d spike du	plicate r	esult.		
	MSD			Spike	Matrix		$\operatorname{Rec}$		RPD
Param	Result	Units	Dıl.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	11000	mg/Kg	100	10000	575	104	85 - 115	2	20
Percent recovery is based on the	spike result	RPD is t	based on t	the spike and	d spike du	plicate r	esult.		
Matrix Spike (MS-1) Spike	ed Sample: 2	31283							
QC Batch 70153 Prep Batch 60022		Date An QC Prep	v	2010-05-18 2010-05-17				alyzed By pared By	
continued			·	<u></u>					

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010	Wo Stephens &		" 10051019 n/East Mill				Number: Eddy Co	
	•							
		<b>.</b>	D.1				D	Rec.
Re	sult	Units	Dil.	Amount	Re	sult 1	Rec.	Lımit
Ν	IS			Spike	Ma	trix		Rec.
			Dil	Amount				Limit
12	800 m	1g/Kg	100	10000	27	50	100	85 - 11
l on the spike result	. RPD is b	ased on t	the spike a	nd spike dup	olicate r	esult.		
MSD			Spike	Matrix		Rec		RPI
	Units	Dıl.	-		Bec.		RPD	Limi
				2750	102	85 - 115		20
l on the spike result		ased on t	he spike a	ad spike dur	olicate r	esult.		
r on one spine result			ne spine a	ia opine aa <sub>f</sub>	neave r			
	Date An	alyzed.	2010-05-11	l		A	analyzed l	By. kg
	CCVs	CC	Vs	CCVs		Percent		
	True			Percent				Date
Units	Conc.	Cor	ıc.	Recovery		Limits	А	nalyzed
mg/Kg	250	25	9	104		80 - 120	20	10-05-1
	Date An	alyzed:	2010-05-11	L		A	Analyzed l	By. kg
	CCVs	CC	Vs	CCVs		Percent		
	True	Four		Percent		Recovery		Date
		~						
Units	Conc.	Con	nc.	Recovery		Limits	Α	nalyzed
Units mg/Kg	Conc. 250	Con 22:		Recovery 89		Limits 30 - 120		
-								
-	250	22		89		30 - 120		10-05-1
-	250 Date An	22 alyzed	2 2010-05-11	89		30 - 120 A	20	10-05-1
-	250	22	2 2010-05-11 Vs	89		30 - 120	20	nalyzed 10-05-1 By: kg Date
-	250 Date An CCVs	22 alyzed CC	2 2010-05-11 Vs nd	89 L CCVs	ł	80 - 120 A Percent	20 Analyzed l	10-05-1 By: kg
	N Res M Res 122 I on the spike result MSD Result 12900 I on the spike result	MS Result MS Result 12800 m 1 on the spike result. RPD is b MSD Result Units 12900 mg/Kg l on the spike result. RPD is b Date An CCVs True Units Conc. mg/Kg 250	MS Result Units MS Result Units 12800 mg/Kg 1 on the spike result. RPD is based on to MSD Result Units Dil. 12900 mg/Kg 100 1 on the spike result. RPD is based on to Date Analyzed. CCVs CC True Fou Units Conc. Cor mg/Kg 250 25	MS Result Units Dil. MS Result Units Dil 12800 mg/Kg 100 I on the spike result. RPD is based on the spike as MSD Spike Result Units Dil. Amount 12900 mg/Kg 100 10000 I on the spike result. RPD is based on the spike as Date Analyzed. 2010-05-11 CCVs CCVs True Found Units Conc. Conc. mg/Kg 250 259	MS       Spike         Result       Units       Dil.       Amount         MS       Spike       Result       Units       Dil       Amount         12800       mg/Kg       100       10000       10000         I on the spike result.       RPD is based on the spike and spike dup       MSD       Spike       Matrix         Result       Units       Dil.       Amount       Result       12900       mg/Kg       100       10000       2750         I on the spike result.       RPD is based on the spike and spike dup       Date Analyzed.       2010-05-11       Date Analyzed.       2010-05-11         CCVs       CCVs       CCVs       True       Found       Percent         Units       Conc.       Conc.       Recovery	MS       Spike       Ma         Result       Units       Dil.       Amount       Res         MS       Spike       Ma         Result       Units       Dil       Amount       Res         12800       mg/Kg       100       10000       27         I on the spike result.       RPD is based on the spike and spike duplicate res         MSD       Spike       Matrix         Result       Units       Dil.       Amount       Res         MSD       Spike       Matrix       Result       Result       Result       Res         MSD       Spike       Matrix       Result       Result       Result       Res       Res         MSD       Spike       Matrix       Result       Result       Res       Res       Res         MSD       Spike       100       10000       2750       102       Io2       Io1       Io1       Io2         I on the spike result.       RPD is based on the spike and spike duplicate res       Io2       Io2       Io2       Io3       Io3       Io3         Date       Analyzed.       2010-05-11       CCVs       CCVs       Io3       Io3       Io3       Io3       Io3	MS       Spike       Matrix         Result       Units       Dil.       Amount       Result         MS       Spike       Matrix         Result       Units       Dil       Amount       Result         12800       mg/Kg       100       10000       2750         I on the spike result.       RPD is based on the spike and spike duplicate result.       Rec.         MSD       Spike       Matrix       Rec.         MSD       Spike       Matrix       Rec.         MSD       Spike       Matrix       Rec.         Limit       Dil.       Amount       Result       Result         12900       mg/Kg       100       10000       2750       102       85 - 115         I on the spike result.       RPD is based on the spike and spike duplicate result.       Imits       Imits       Imits         Date       Analyzed.       2010-05-11       Imits       Imits         CCVs       CCVs       CCVs       Percent       Recovery         Units       Conc.       Conc.       Recovery       Limits         mg/Kg       250       259       104       80 - 120	MS       Spike       Matrix         Result       Units       Dil.       Amount       Result       Rec.         MS       Spike       Matrix       Result       Rec.         12800       mg/Kg       100       10000       2750       100         I on the spike result.       RPD is based on the spike and spike duplicate result.       Rec.       MSD       Spike       Matrix       Rec.         MSD       Spike       Matrix       Rec.       Rec.       Result       Units       Dil.       Amount       Result       Rec.         MSD       Spike       Matrix       Rec.       Rec.       Result       Result       Result       Result       Rec.       Immit RPD         12900       mg/Kg       100       10000       2750       102       85 - 115       1         I on the spike result.       RPD is based on the spike and spike duplicate result.       Analyzed       Immit Recovery       Analyzed         CCVs       CCVs       CCVs       Percent       Recovery       Immit Recovery       Immit Amount         Units       Conc.       Conc.       Recovery       Limits       Amount         Mg/Kg       250       259       104

Report Date: Ma 114-6400476	y 19, 2010	)		c Order · 10051 Johnson/East N			umber. 28 of 30 dy County, NM
D			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc	Conc	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.0941	94	80 - 120	2010-05-11
Toluene Ethadh an an a		mg/Kg	0 100	0 0913	91	80 - 120	2010-05-11
Ethylbenzene Vedere		mg/Kg	0 100	0.0833	83	80 - 120	2010-05-11
Xylene		mg/Kg	0.300	0 251	84	80 - 120	2010-05-11
Standard (CCV	-2)						
QC Batch: 6993	4		Date Analy	zed: 2010-05-	11	Anal	yzed By: AG
			CCVs	$\mathrm{CCVs}$	$\mathrm{CCVs}$	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.0983	98	80 - 120	2010-05-11
Toluene		mg/Kg	0.100	0.0967	97	80 - 120	2010-05-11
Ethylbenzene		mg/Kg	0.100	0.0915	92	80 - 120	2010-05-11
Xylene		mg/Kg	0.300	0.276	92	80 - 120	2010-05-11
Standard (CCV QC Batch 6993	,		Date Analy				yzed By. AG
			$\mathrm{CCVs}$	CCVs	$\mathrm{CCVs}$	Percent	
			True	Found	Percent	Recovery	Date
Param Fl	ag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO	·	mg/Kg	1.00	1.03	103	80 - 120	2010-05-11
Standard (CCV	-2)						
QC Batch: 6993	6		Date Analy	zed: 2010-05-	11	Anal	yzed By. AG
			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param Fl	ag	Units	Conc	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	0.922	92	80 - 120	2010-05-11
Standard (ICV-	1)						
QC Batch 7011	2		Date Analy	zed. 2010-05-	17	Anal	yzed By: AR

Report Da 114-64004'	nte. May 19, 201 76 	10		k Order 10051 Johnson/East 1			umber: 29 of 30 ldy County, NM
Param Chloride	Flag	Units mg/Kg	ICVs True Conc. 100	ICVs Found Conc. 994	ICVs Percent Recovery 99	Percent Recovery Limits 85 - 115	Date Analyzed 2010-05-17
Standard	(CCV-1)						
QC Batch:	70112		Date Anal	yzed: 2010-05	5-17	Anal	yzed By. AR
Param Chloride	Flag	Units mg/Kg	CCVs True Conc. 100	CCVs Found Conc. 101	CCVs Percent Recovery 101	Percent Recovery Limits 85 - 115	Date Analyzed 2010-05-17
Standard	(ICV-1)						
QC Batch:	70113		Date Anal	yzed. 2010-05	5-17	Anal	yzed By: AR
Param Chloride	Flag	Units mg/Kg	ICVs True Conc. 100	ICVs Found Conc. 101	ICVs Percent Recovery 101	Percent Recovery Limits 85 - 115	Date Analyzed 2010-05-17
Standard	(CCV-1)						
QC Batch.	70113		Date Anal	yzed: 2010-05	5-17	Anal	yzed By. AR
Param Chloride	Flag	Units mg/Kg	CCVs True Conc. 100	CCVs Found Conc. 98 6	CCVs Percent Recovery 99	Percent Recovery Limits 85 - 115	Date Analyzed 2010-05-17
Standard	(ICV-1)						
QC Batch.	70152		Date Anal	yzed. 2010-05	5-18	Anal	yzed By. AR
Param Chloride	Flag	Units mg/Kg	ICVs True Conc 100	ICVs Found Conc 98.6	ICVs Percent Recovery 99	Percent Recovery Limits 85 - 115	Date Analyzed 2010-05-18
Standard	(CCV-1)						
QC Batch:	70152		Date Anal	yzed: 2010-05	5-18	Anal	yzed By: AR

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Report Dat 114-640047	e <sup>.</sup> May 19, 201 6	10		k Order 10051 Johnson/East		*	umber: 30 of 30 dy County, NM
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2010-05-18
Standard	(ICV-1)						
QC Batch	70153		Date Anal	yzed 2010-05	5-18	Anal	yzed By: AR
Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride	·	mg/Kg	100	102	102	85 - 115	2010-05-18
Standard	(CCV-1)						
QC Batch:	70153		Date Anal	yzed: 2010-03	5-18	Anal	yzed By. AR
Param	Flag	Units	CCVs True Conc	CCVs Found Conc	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.4	98	85 - 115	2010-05-18

Order #. 10051019		
Analysis Request of Chain of Custody	v Record	PAGE: OF 8
		ANALYSIS REQUEST (Circle or Specify Method No.)
TETRATECH           1910 N. Big Spring St.           Midland, Texas 79705           (432) 682-4559 • Fax (432) 682-3946		L (Ext. to C35) Cd Cr Pb Hg Se Cd Vr Pd Hg Se Cd Vr Pd Hg Se t t t t TDS
CLIENT NAME: SITE MANAGER: Styphyny & Johnson Obersteing Ifr Tavorez	PRESERVATIVE	TX1005 Ba Cd Ba Cd Ba Cd 70/624 70/625
PROJECT NO.: PROJECT NAME: /		D As 3 As 3 As 4 As 4 As 4 As 4 As 4 As 4
114-6400476 Stephenst Liknson / Ensi Millmon TB Eddy G. NM		5 MR 5 MR 1 Vola 824 A( 0608 824 (Jur) 1 Vola 824 (Jur)
LAB I.D. NUMBER DATE TIME TIME HEAD SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS METHOD HCL HUCL HUO3 HUO3 HUO3 HUO3 HUO3 HUO3 HUO3 HUO3	RTEX 8021B         TX1005           PAH 8270         FX1005           TCLP Metals Ag As Ba Cd         TCLP Volatiles           TCLP Volatiles         FX1006           FCI         Semi Volatiles           RCI         GC MS Vol 8240/8260/625           PCB s 8080/608         PCB           Pest. 8080/608         PCB           Pest. 8080/608         PCB           Pest. 8080/608         PCB           Pest. 8080/608         PCB           Pold Maspec         Alpha Beta (arr)           PLM (Asbestos)         PLM (Asbestos)           Major Annons/Cations, pH, TC         Major Annons/Cations, pH, TC
331048 5/5 5 × 13G 10'	1 X	
049 / 136 20'		
050 30		
051 1361 40'		
052 ) / BG 50'		
073     BG 60'		
074 BH-1 0-1'		
OF       BH-1 3-4'		
090 / 134-1 7:8'		
CS7 RELINQUISHED BY: (Signature) 2 Date 2/2/1/2 RECEIVED BY: (Signature)	Date: 5/7/	20 SAMPLED BY (Print & Initial) Date. 3/6/12
Time The A	Time: 17:0	CT7
RELINQUISHED BY: (Signature)         Date         RECEIVED BY: (Signature)           Time	Date: Time:	SAMPLE SHIPPED BY (Circle) AIRBILL # EEDEX BUS (HAND DELIVERED UPS OTHER
RELINQUISHED BY: (Signature) Date RECEIVED BY: (Signature)	Date: Time:	TETRA TECH CONTACT PERSON- Results by.
RECEIVING LABORATORY:         Trace         RECEIVED BY. (Signature)           ADDRESS:	TIME:	The Torare ? RUSH Charges Authorized. Yes No
SAMPLE CONDITION WHEN RECEIVED: 4.5°C in tack If total TPH excerd 5,000 mg/ky rar dry	oper samples Il Broz It BIE	enemereds 10 mg/kg run derpre semptes Kerrids 50 mg/kg run derpre semptes &ler

Order #. 100m	215														-								
Analysis Request of Chair	n of Custody	R	e	co	rc	Ż									PAGE			2_		OF:	_{	3	
	<u>ل</u>											(Cır			SIS I becit				10.)				
TETRAT 1910 N. Big Spr Midland, Texas (432) 682-4559 • Fax	ing St. 79705							05 (Ext. to C35)		RCRA Metals Ag As Ba Cd Cr Pb Hg Se	ac fu bu la b									TDS			
CLIENT NAME: SITE MANAGER: Stophens & Johnson Ownating Ike Tavover	ں م	EHS					Έ	TX10			B			0/624	20/0/					s, pH,			
PROJECT NO .: PROJECT NAME: 114-4100474 OTEDHENSE Johnson / East M	e a filmen Tis	CONTAIN						(PH* 8015 MOD> TX1005		ls Ag As	TCLP Metals Ag As TCLP Volatiles	TCLP Semi Volatiles		8240/82f	/608	08		GC.	(Air)	stus/ ns/Cation			
Eddy G. A	DATE TIME KILL W GUNDOU SAMPLE IDENTIFICATION												RCI	GC.MS Vol.	GC.MS Semi. Vol 82/0/620 PCB's 8080/608	Pest. 808/608	Chloride.	Gamma Sp	Alpha Beta (Air)	Major Anions/Cations, pH, TDS			
231078 3/5 5 X BH-1 15-16																	7						
059 / [34-1 20-21		1	1		17												<b>V</b>						
060 BH-1 25-26'		T	T								T								T				
061   BH-1 30'-31		$\prod$		T	Π			T															
QU7 13H-1 410'-41'		$\prod$	T	Τ	IT																		
063 BH-1 50-51		T																	T				
064 / 34-1 60'61		Π	T	1	$\prod$																		
Cb5 / BH-1 70'-71'		Π																					
Diblo / 34-1 80-8."		$\mathbb{Y}$			17																		
007 + + 134-2, 0.1		4			¥			X									X						
RELINQUISHED BY: (Signature)	CEIVED BY. (Signature)			Date. Time		27	777	2	SAI	MPLE	DBY	• (Pnn	it & In	intial) L	,				Dat Tim		5767	<u>יט</u> ן	
RELINQUISHED BY: (Signature) Date: RECINQUISHED BY: (Signature) Context	CELVED BY (Signature)			Date Time						MPLE EDE>		PED	BY (0	Circle) BUS					AIRBI				
	CEIVED BY: (Signature)			Date Time.					CH	AND	DELI	CONT	£	UPS						R	ts by.		
	EIVED BY. (Signature)	TIME								7	ke	74		re Z	,				-		l Charg Inzed		 Vo
SAMPLE CONDITION WHEN RECEIVED. REMARKS: H total TP:+ LACORD Blogge fill out all applies - Laboratory retains Yallow co	1 5,000 mg/Ks run derpar		ارأبه	-5		( Bri 1316					سر نها د ت ک	•,7k • •	Ĵĸs	eur C	, di er i	er pro cher j			ا دامه مرجع	*5		لمريع للمريع	

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Under # 10057019		
Analysis Request of Chain of Custod	v Record	PAGE: 3 OF: 8
	<i>d</i>	ANALYSIS REQUEST (Circle or Specify Method No.)
TETRATECH           1910 N. Big Spring St.           Midland, Texas 79705           (432) 682-4559 • Fax (432) 682-3946		5 (Ext. to C38) I Cr Pb Hg Se I Vr Pd Hg Se IDS
CLIENT NAME: SITE MANAGER: Stophens & Johnson Operating IK: Tavorez	PRESERVATIVE	D3, TX1005 As Ba Cd ( As Ba Cd ( /8260/624 8270/625 8270/625
Stophens & Johnson Greating IKE Tavorez PROJECT NO .: PROJECT NAME:		DS As
114-64100000 Stophenst Johnson / East Millman TB	CON (N)	MOD> MOD> Is Ag As Is
LAB I.D. DATE TIME TIME AND THE SAMPLE IDENTIFICATION	PRESERVATIVE METHOD HIOD HINO3 NONE NONE	RTEX 8021B)       RTEX 8021B)       PAH 8270       PAH 8270       RCRA Metals Ag As Ba Co       FCLP Volatiles       TCLP Volatiles       TCLP Semi Volatiles       FCI       GC.MS Vol. 8240/8260/624       GC.MS Semi Vol 8270/625       Pest 808/608       Pest 808/608       Pest 808/608       Pest 808/608       Plan Spec       Alpha Beta (Arr)       PLM (Asbestos)       Major Anions/Cations, pH, 1
23/008 53- 3 X BH-Z 3:4	I X	X
069 ( / 134-2 7-8'		
070 BH-Z 10-11		
071 BH-Z 15-16		
072 BH-Z 20'-21'		
1573 BH-2 26'26'		
074 ) 31-2 30-31		
075 BH-2 40-41		
076 5/L 13H-3 0-1		
077 6 1 BH-3 3'4'	6 8	
RELINQUISHED BY: (Signature)	Date: Time	SAMPLED BY: (Print & Initial)         Date:           7.00         7.100
RELINQUISHED BY: (Signature) Date RECEIVED BY (Signature)	Date: Time:	SAMPLE SHIPPED BY: (Circle) AIRBILL #
RELINQUISHED BY (Signature)         Date         RECEIVED BY: (Signature)           Time:	Date:	HAND DELIVERED UPS OTHER: TETRA TECH CONTACT PERSON: Results by.
RECEIVING LABORATORY: Traily RECEIVED BY (Signature)	Time:	- The Tavare ? RUSH Charges Authorized
CONTACT: PHONE DATE	TIME	Yes No
SAMPLE CONDITION WHEN RECEIVED: 4.0°C, N+aCt If total TPH exceed 5,000 mg/kg nor der		enexceds King/Ky run deeper Samples "exceeds 50 mg/Ky run deeper samples 21-

_		<u>Urc</u>	le	<u> </u>	#. 10057CI	9																		
An						ain of Cust	odv R	e(	20	rd								PA	GE:	4		OF	: 8	}
												ł				(Cırcı				QUES 1etho		.)		
					Midland, Tex	Spring St.							)5 (Ext. to C35)	Cd Cr Pb Hg Se	Vr Pd Hg Se								pH, 1US	
CLIENT NAN		~			SITE MANAGE	R:	SRS	TF		ERVA			TX1005	Ba C	Ba		/624	0/625					H	
Strohuns : PROJECT N	<u>Ichnson</u>	Print	PBC	UECI	The Tan	6442	LAINE	-		ETHO		4 1	2	2	ŝ	les	8260	827					sions	
114-640			Ste	isher	St Johnson / East Eddy G	Millman TB	NUMBER OF CONTAINERS						<u>GON</u>	s Ag	s Ag	Volati	8240	2	809		Air)	tos)	s/Ca	
LAB I.D. NUMBER	DATE	TIME	MATRIX	HCL	HNO3	10E	NONE	RTEX 8021B	QPH - 8015 MOD PAH 8270	<b>RCRA Metal</b>	TCLP Metal TCLP Volatil	TCLP Semi Volatiles	GC MS Vol	GC,MS Sem	PCB's 8080/608 Pest. 808/608	Chlonde	Gamma Spe Alpha Beta (	PLM (Asbestos)	Major Anions/Cations,					
231578	5/6		3	X	134-3 7-8			X			<u> </u>							X						
679		ļ	[/]	1	BH-3 10'-	,1																		
080					BH-3 15'	-16'														Щ				
051	-		/	$\downarrow$	13H-3 zc'	-21											_			6				_
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085					BH-4 3-4	· ·	[]													1(1				
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RELINQUISHED	) BY, (Signatu	ire)			Date: Time:	RECEIVED BY: (Signature)			Date Time							CONTA	UF		  .	~		Resu	ilts by	
RECEIVING LAE ADDRESS. CITY: M.Y					ZIP	RECEIVED BY: (Signature)							-		ke	Tax	16.44	S				Auth	H Charg orized:	
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7100	$1 \vee \overline{7}$	act		ور المراجع ال			1			، منسق	BYEX	LX	4155	د حسرت	> 6 .		~~ <u>}</u>	Mr. m	cter.	12-10	55	~,>1·	`>	1-1-1

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An							in of Custod		20	<u>.</u>	r	1								PA		4	$\leq$		OF:	8	]
				<u> </u>				· <b>y</b> ·					_				ť	A Circle			S RE(			(0)			
				ł	1910 Nidlar	I. Big S Id, Texa	<b>TECH</b> Spring St. as 79705 Fax (432) 682-3946							05 (Ext. to C35)		d Vr Pd Hg Se									TDS		
CLIENT NAM						ANAGEF		SHS			SER		Ξ	TX1005		As Ba Cd As Ba Cd			0/624	0/62					E.		
Stony ?	Johnson .	Openit	ing Ipp(		T NAME:	e Tave	<u>veS</u>	TAINE	-	- <u>-</u>						As As		les	/826(	827					tions		
114-640						East	Millman Tis NM	NUMBER OF CONTAINERS	FILTERED (Y/N)					Î	.	s Ag s Ag	6S	lotati	8240	I. Vol	809		2	(FI)	s/Ca		
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP GRAB	ICE	NONE	ATEX 8021R	4PH 8015 N	PAH 8270	TCLP Metals Ag	TCLP Volatil	TCLP Semi Volatiles RCI	GC.MS Vol 8	GC.MS Sem	PCB's 8080/608 Pest 808/608	Chloride	Gamna Spec	Alpha Beta (Air)	Major Anions/Cations,								
031088	51		3	X											K												
્ક્વ				4	BH-4	20121	•	[]			Щ.		_			_			-			Ş	,	_			<b></b>
<u>090</u>					Вн-ч	25-20	£'			_				-													$\left  \right $
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SAMPLE CON		RECEIVED:		_ PHO	BEMARKS		DATE.	TI	ME:	2		1 Bin	7.45			11	· may	1 ken	0		derp	. e		1	Yes		Nc
21.000	í~	Lac	L		If total T	PH CAC	ord 5,000 mg/km run di	-prr 3	amp	115		- 1316														l	Ý <del>q.</del>

		re	#		0057019					concernation								(*** <b>***</b> ***	-							
An	alvs	sis F	le	αι	est of Cha	ain of Custoc	dv F	le	co	ro		<u> </u>							PAG		6		OF:		9	
· · · · ·			dan a													(Cıl					UES <sup>-</sup> ethod		)			
					Midland, Tex	Spring St.							05 (Ext. to C35)	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	d Vr Pd Hg Se									60-		
CLIENT NAM		Ostrut			SITE MANAGE		NERS			ETHO	ATIVE		TX1005	s Ba C	s Ba C			60/624	270/62				L L	lu l		
PROJECT N 114-640	0.;		PR	OJEC	TNAME: <u>nst Linson</u> East Eddy C		CONTAI	(N/X					* 8015 MOD>	ds Ag A:	IIs Ag A	les Volatiles		8240/82	11 Vol. 8. /608	08		(Air)	stos)			
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP . GRAB		、、んかへ LE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	HN03	ICE	NONE	ALEX 8021B	011 801	RCPA Meta	TCLP Meta	TCLP Volatiles TCLP Semi Volatiles	RCI	GC MS Vol. 8240/8260/624	GC.MS Semi Vc PCB's 8080/608	Pest 808/608	Chloride.)	Alpha Beta	PLM (Asbestos)			
231098			3	X	BH-5 10-1	х 1	1			X											X					
099					BH-5 15-1	c'												Π			X					
231100					BH-5 20-2	/															X					
101					BH-5 30-	31																				
102					BH-5 40'	41																				
103					BH-5 50	, 5 /																				
1ગ્મ					BH-5 W.	61																				
105					BH-6 20-2	2)																				
106					BH-6 30'-	, 51																				
107		[			BH-7 201.	21'																				
RELINQUISHED		As	P	*5		RECEIVED BY: (Signature)			Date. Time:		$\frac{1}{17}$	10				Y: (Prir	,	<i>11</i>					later īme	3/4/ 	12	
RELINQUISHED	) BY: (Signatu	rey /			Dater Time.	RECEIVED Str (Signature)			Date Time:				- 8	FEDE	:X	IPPED		BUS					BILL #			
RELINQUISHED	) BY (Signatu	re)			Date:	RECEIVED BY (Signature)			Date: Time.							IVERE H CON		UPS PER					Resu	its by		
RECEIVING LAN	1. <u> </u>				ZIP:	RECEIVED BY (Signature)								•	Tk	: T	í a va	ve e	!				RUSH Autho			
		1 -		_ PHC	CEMARKS.	Level 5,000 mg/km run a		ле: 	115		ISenter BTEX					-17/k	7			-			>1=5		• <i>!</i> /{	Vo /
L	CIN	14au	1			· • • i	,			- Ander	,01Ex	<u>ل</u> ر ک	4 + 65	3 	7 4	- <u></u>	7	$2 \leq$	un i	CAPTI	$\frac{1}{2}$		1,11	<i>د.</i> .		

	Orc	rek	ì	100	257019													·							
An	alvs	sis F	<b>le</b>	au	est of Cha	ain of Custo	dv F	le	co	rc	ł								AGE:		7		OF:	8	
	J		P		enna l														IS RE ecify i			Io.)			
			ELECTRON CONTRACT OF C		Midland, Tex	Spring St.							35 (Ext. to C35)	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	d Vr Pd Hg Se								TDS		
		0			SITE MANAGEI		ERS	Τ		SERV	ATIVE		TX1005	Ba C	Ba		0/624	70/625					s, pH,		
51001405 - PROJECT N 114- 640	0.:	<u>~74161</u>	PRO	DJEC.	TNAME: <u> 15 É bánson</u> / East Eddy G		NUMBER OF CONTAINERS	FILTERED (Y/N)	T				Ê	is Ag As	Is Ag As	Volatiles	82407826	n. Vol. 82	608	Q	20	(Aur) thel	is/Cation		
LAB I.D. NUMBER	DATE ZOLO	TIME	MATRIX	HN03	ICE	NONE	GIEX 8021	4 PH * 8015 N PAH 8270	<b>RCRA Meta</b>	TCLP Metals A	TCLP Semi Volatiles	RCI GC MS Vol	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Chloride	Gamma Spec	Alpha Beta (Air) PI M (Ashestos)	Major Anions/Cations, pH, TDS							
231108			3	X	13H-7 30-31	T	X				Π				T	Π									
109					13H-8 Zo-Zi																				
110					BH-8 50-31																				
[]]					BH-8 40-41	8																			
112					BH-8 50-51	ł																			
113					134-8 60-61																				
114					13+-8 70-71	x																			
115					BH-8 82-81	•																			
116					BH-9 20'2.	s																			
117					BH-91 30-31																				
RELINQUISHED		<u> </u>	Z	5	Date 2/7/10	RECEIVED BY: (Signature)			Date: Time:	-	1.77	13 710.	<u> </u>			(Pnnt	- Le	. 7				Dati Tim	9: e	u/r	
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RELINQUISHED	) BY: (Signatu	ire)			Date	RECEIVED BY. (Signature)			Date: Time.					-	_	CONT	_	IPS ERSO	N.			OTHEI P	Results I	<u></u>	
RECEIVING LAI ADDRESS: CITY: CONTACT:	· · · · · · · · · · · · · · · · · · ·	STATE:		PHOP	ZIP <sup>.</sup>	RECEIVED BY (Signature)	Til	ие					-	 ند	<u>k</u> e	10	- V& 19	e Z				F A	USH C Authoriz Yes	harges ed	No
SAMPLE CONE		- (			REMARKS II tutal TI <sup>3</sup> 14 (Ac	end 5,000 mg/ks run			les		' Brite BIEK								derj r di			~p1	e <		ill<

Urder 77: 10057019		
Analysis Request of Chain of Custoc	dy Record	PAGE: 8 OF: 8
		ANALYSIS REQUEST (Circle or Specify Method No.)
TETRATECH           1910 N. Big Spring St.           Midland, Texas 79705           (432) 682-4559 • Fax (432) 682-3946		ATEX 8021B       ATEX 8021B       PAH 8270       PAH 8270       FAH 8270       FAH 8270       FCLP Metals Ag As Ba Cd Cr Pb Hg Se       TCLP Metals Ag As Ba Cd Vr Pd Hg Se       TCLP Volatiles       TCLP Volatiles       TCLP Volatiles       FC       GC.MS Vol 8240/8260/625       PCI       GC.MS Sem. Vol. 8270/625       PCB's 8080/608       Pest. 8080/608       Pe
CLIENT NAME: SITE MANAGER:	PRESERVATIVE	D 00625
Styphens & Lehnson Burgating IKe Tavorez PROJECT NO .: PROJECT NAME: 1		As A
PROJECT NO.: 114-6406476 Drephrnst Johnson / East Millman TB Eddy G. NM	V/N)	NO     NO
LAB I.D. NUMBER DATE TIME TIME AND BRENTIFICATION	ALLERED CONTAINERS METHOD HICL HINO3 NONE	ALEX 8021B       ALEX 8021B       ALEX 8015 MOD-, TX1005       PAH 8270       PAH 8270       BAH 8270       BAL 8270       TCLP Metals Ag As Ba Cd V       TCLP Volatiles       TCLP Volatiles       TCLP Semi Volatiles       RCi       TCLP Semi Volatiles       RCi       GC.MS Vol 8240/8260/624       GC.MS Vol 8240/608       Pest. 8080/608       Palpha Beta (Air)       PLM (Asbestos)       Major Annons/Cations, pH, TDS
23/118 516 5 X 13H-10 20'21'	1 X	
119 2 S BH-10 30'-31'		
Hold all additional samples		
6- further instructions		
RELINQUISHED BY: (Signature)	Date: 5/1// Time / 7:10	SAMPLED BY. (Print & Initial) Date: 3/c/10 II Time:
AELINQUISHED BY (Signature) Date RECEIVED BY: (Signature)	Date: Timer	SAMPLE SHIPPED BY: (Circle) AIRBILL #
RELINQUISHED BY. (Signature) Date: RECEIVED BY: (Signature)	Date Time	(HAND DELIVERED)         UPS         OTHER           TETRA TECH CONTACT PERSON:         Results by
RECEIVING LABORATORY.     Tritr     RECEIVED BY: (Signature)       ADDRESS:	TIME	The Taverer RUSH Charges Authorized: Yes No
SAMPLE CONDITION WHEN RECEIVED: REMARKS: If total TPH excerced 5,000 mg/ks run a	Imper samples If Benze It BIER	rn exceeds 10 mg/kg run deeper sumples K exceeds 50 mg/kg run deeper sumples (+

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# **TCEQ Core Data Form**

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For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175

## **SECTION I: General Information**

	<u></u>							
1	いっち イストじしょ へっぱりけい	on (If other is checked please ation of Authorization (Core D			· ·	the program an	nilication)	
		a Form should be submitted w	2			<u>, , , , , , , , , , , , , , , , , , , </u>		<u>, , , , , , , , , , , , , , , , , , , </u>
2. Attachme		Describe Any Attachments:		<u> </u>			etc.)	
TYes			(on the tripp)			<u>Pp</u> noutri,		
		Number (if issued)	Follow this line	c to search	4. Rec	oulated Entity	Reference Numb	er (if issued)
CN			for CN or RN i Central Re	numbers in	RN			
SECTION	<u>NII: Cu</u>	stomer Information						
5. Effective	Date for Cu	stomer Information Updates	mm/dd/yyyy)					
6. Customer	Role (Propo	sed or Actual) - as it relates to the	Regulated Entil	y listed on th	is form. F	Please check only	one of the following	l: •
Owner		Operator	🗌 Own	er & Operat	or			
COccupatio	nal License	e 🔲 Responsible Party	🔲 Volu	ntary Cleani	up Applı	cant 🛛 🗌 O	ther:	
7. General C	ustomer Inf	ormation						
New Cus	tomer		date to Custo	mer Informa	tion	Cha	nge in Regulated	Entity Ownership
Change Ir	Legal Nam	e (Venfiable with the Texas Sec				<u>No (</u>	Change**	
<u>**If "No Cha</u>	nge" and Se	ection I is complete, skip to S	Section III – Re	gulated En	tity Info	ormation.		
8. Type of C	ustomer:	Corporation	🔲 Indiv	vidual		Sole Propr	ietorship- D.B.A	
City Gove	ernment	County Government	Fede	eral Governi	ment	State Gove	ernment	
D Other Go	vernment	General Partnership	Limr	ted Partners	ship	Other:		
9. Customer	Legal Nam	e (If an individual, print last name	first: ex: Doe, Jo	hn) <u>lf n</u> bel		omer, enter prev	ious Customer	End Date:
	<u></u>		anzaren e				· · · · · · · · · · · · · · · · · · ·	
				l				I
10. Mailing						·····		• <u> </u>
Address:			<b>1</b> 1 1					
	City		State		ZIP		ZIP + 4	
.11. Country	Mailing Info	rmation (If outside USA)	,	12. E-I	Mail Ado	dress (if applicabl	e)	,
			· · · ·					
13. Telephor	ie Number	· 1	4. Extension	or Code		15. Fax M	lumber (if applica	DIC)
()	- [av []] (a ) -	) 17. TX State Franchise T		10 010	IC Mum		-	Alumbor (
16. Federal 1	I <b>ax ID</b> (9 digits		<b>ax ID</b> (11 digits)		15 NUM	ber(if applicable)	19. 1X 505 Film	g Number (if applicable)
20. Number	of Employe	es	•	_1		21. ind	lependently Own	ed and Operated?
0-20	21-100	101-250 251-500	501 and 1	nigher			Yes	No
		gulated Entity Infor				<u> </u>		<u> </u>
		ntity Information (If 'New Red		is solacted l	holow th	is form should h	e accompanied h	

22. General Regulated Ell	uty mormation (if New Regulated Entity	/ is selected below this form should be accomp	anieu by a permit application)		
New Regulated Entity	Update to Regulated Entity Name	Update to Regulated Entity Information	No Change** (See below)		
**If "NO CHANGE" is checked and Section I is complete, skip to Section IV, Preparer Information.					
23. Regulated Entity Name (name of the site where the regulated action is taking place)					

•

24. Street Address of the Regulated					
Entity: <u>(No P.O. Boxes)</u>	City	State	9	ZIP	ZIP + 4
25. Mailing Address:					
	City	State	9	ZIP	ZIP + 4
26. E-Mail Address:					
27. Telephone Num	oer	28. Exten	sion or Code	29. Fax Num	ber (if applicable)
() -				()	-
30. Primary SIC Cod	le (4 digits)	31. Secondary SIC Code (4 digit	s) 32. Primary (5 or 6 digits)	y NAICS Code	33. Secondary NAICS Code (5 or 6 digits)
34. What is the Prim	ary Busines	ss of this entity? (Please do not	t repeat the SIC or	NAICS description )	

## Questions 34 - 37 address geographic location. Please refer to the instructions for applicability.

35. Description to Physical Location				
36. Nearest City		County	State	Nearest ZIP Code
37. Latitude (N)	In Decimal:		38. Longitude (W) In Decimal:	
Degrees	Minutes	Seconds	Degrees Minutes	Seconds

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form or the updates may not be made. If your Program is not listed, check other and write it in See the Core Data Form instructions for additional guidance

Dam Safety	Districts	Edwards Aquifer	Industrial Hazardous Waste	Municipal Solid Waste
New Source Review – Air	OSSF	Petroleum Storage Tank		Sludge
Stormwater	Title V – Air	Tires	Used Oil	
D Voluntary Cleanup	Waste Water	Wastewater Agriculture	Water Rights	Other:

## **SECTION IV: Preparer Information**

40. Name:			41. Title:	
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address	
(		() .		

## **SECTION V:** Authorized Signature

**46.** By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 9 and/or as required for the updates to the ID numbers identified in field 39.

#### (See the Core Data Form instructions for more information on who should sign this form.)

Company:	Job Title:
Name(In Print):	Phone: ( ) -
Signature:	Date:

# **Summary Report**

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Mıdland, TX 79705

Report Date May 25, 2010

Work Order. 10051019

# 

Project Location:Eddy County, NMProject Name:Stephens & Johnson/East Millman TBProject Number:114-6400476

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
$\overline{231101}$	BH-5 30-31'	soil	2010-05-06	00:00	2010-05-07
231102	BH-5 40-41'	soil	2010-05-06	00:00	2010-05-07

#### Sample: 231101 - BH-5 30-31'

Param	$\mathbf{Flag}$	Result	Units	RL
Chloride		1130	mg/Kg	4 00

#### Sample: 231102 - BH-5 40-41'

Param	$\mathbf{F}$ lag	Result	Units	$\mathbf{RL}$
Chloride	•	460	mg/Kg	4.00



 6701 Aberdeen Avenue, Suite 9
 Lubbock, Texas 70424

 200 Last Sunset Road, Suite E
 El Paso, Taxas 70922

 5002 Basin Street, Suite A1
 Milland, Texas 79703

 6015 Harris Parkway Suite 110
 Ft. Worth, Texas 76132

Lubbock, Texas 79424 800+378+1290 El Paso, Taxas 79922 888+508+3443 Midland, Texas 79703 t Worth, Texas 76132 E-Mail: lab@traceanalysis.com

800+378+1296 806+794+1296 888+508+3443 915+585+3443 432+689+6301 817+201+5260

HAX 800+794+1298 FAX 915+585+4944 FAX 432+689+6313

**WBENC:** 237019

HUB:1752439743100-86536NCTRCAWFWB38444Y0909

Certifications

**DBE:** VN 20657

## **NELAP** Certifications

Lubbock: T104704219-08-TX LELAP-02003 Kansas E-10317 El Paso: T104704221-08-TX LELAP-02002 Midland: T104704392-08-TX

## Analytical and Quality Control Report

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX, 79705

Report Date May 25, 2010

Work Order: 10051019

Project Location:Eddy County, NMProject Name:Stephens & Johnson/East Millman TBProject Number:114-6400476

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
231101	BH-5 30-31'	soil	2010-05-06	00.00	2010-05-07
231102	BH-5 40-41'	soil	2010-05-06	00:00	2010-05-07

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 Dr. Mıchael Abel, Project Manager

## Standard Flags

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 ${\bf B}\,$  - The sample contains less than ten times the concentration found in the method blank.

# Case Narrative

Samples for project Stephens & Johnson/East Millman TB were received by TraceAnalysis, Inc. on 2010-05-07 and assigned to work order 10051019 Samples for work order 10051019 were received intact at a temperature of 4.0 C.

Samples were analyzed for the following tests using their respective methods.

		Prep	Prep	$\mathbf{QC}$	Analysis
Test	Method	Batch	Date	$\operatorname{Batch}$	Date
Chloride (Titration)	SM 4500-Cl B	60199	2010-05-24 at 09:13	70333	2010-05-25 at 09:55

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10051019 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# **Analytical Report**

## Sample: 231101 - BH-5 30-31'

Laboratory. Analysis: QC Batch: Prep Batch <sup>.</sup>	Midland Chloride (Titration) 70333 60199	Analytical Method Date Analyzed Sample Preparation:	SM 4500-Cl B 2010-05-25 2010-05-25	Prep Method: Analyzed By. Prepared By:	AR
		RL			
Parameter	Flag	Result	Units	Dilution	$\mathbf{RL}$
Chloride		1130	mg/Kg	50	4.00

#### Sample: 231102 - BH-5 40-41'

Laboratory: Analysis: QC Batch: Prep Batch:	Chloride (Tıtratıon) 70333	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2010-05-25 2010-05-25	Prep Method: Analyzed By: Prepared By.	•
		$\operatorname{RL}$			
Parameter	$\operatorname{Flag}$	$\operatorname{Result}$	Units	Dilution	$\mathbf{RL}$
Chloride	·	460	mg/Kg	50	4.00

#### Method Blank (1) QC Batch: 70333

QC Batch: Prep Batch:	70333 60199		Date Analyzed: QC Preparation	2010-05-25 2010-05-24		Analyzed By. Prepared By.	
Parameter		Flag	MI Res	DL vult	Units		$\operatorname{RL}$
Chloride		<u>_</u>	<2	.18	mg/Kg		4

mg/Kg

### Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch:	70333 60199		Analyzed: Preparation:	2010-05- 2010-05-			Analyzec Preparec	l By. AR l By AR
Param		LCS Result	Units	Dil	Spike Amount	Matrıx Result	Rec.	Rec. Limit
Chloride		98.4	mg/Kg	1	100	<2.18	98	85 - 115

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

114-640047	te May 25, 201 76	ιυ 			er: 1005101 on/East Mil				age Numbe Eddy Cou	
Param		LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. . Limit	RPD	RPI Lım
Chloride		100	mg/Kg	1	100	<2.18	100	85 - 113		20
Percent rec	overy is based o	on the spike result		ased on	the spike an	ıd spike du	plicate r	esult.		
Matrix Sp	oike (MS-1)	Spiked Sample: 2	231598							
QC Batch.	70333		Date Ana	lvzed	2010-05-23	5		А	nalyzed B	y. AI
Prep Batch			QC Prep	•	2010-05-24				repared By	
		Ν	1S			Spike	Ма	trix		Rec.
Param				Jnits	Dil.	Amount			Rec.	Lim
Chloride		10	700 m	g/Kg	100	10000	4	70	102	85 - 1
Percent rec	overy is based	on the spike result	RPD is ba	ased on	the spike an	d spike du	plicate r	esult.		
		MSD			Spike	Matrix		Rec.	•	$\mathbf{RP}$
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Lin
Chloride		10900	mg/Kg	100	10000	470	104	85 - 115	5 2	20
	. ,		Date Ana	lyzed ·	2010-05-25			А	nalyzed B	y. Al
<b>Standard</b> QC Batch:	. ,		ICVs	IC	Vs	ICVs		Percent		
QC Batch:	70333		ICVs True	IC For	Vs und	Percent		Percent Recovery		Date
QC Batch: Param	. ,	Units	ICVs True Conc	IC For Co	Vs und onc.	Percent Recovery		Percent Recovery Limits	A	Date nalyze
QC Batch:	70333	Units mg/Kg	ICVs True	IC For Co	Vs und	Percent		Percent Recovery	A	Date nalyze
QC Batch: Param Chloride	70333 Flag		ICVs True Conc	IC For Co	Vs und onc.	Percent Recovery		Percent Recovery Limits	A	Date nalyze
QC Batch: Param Chloride Standard	70333 Flag (CCV-1)		ICVs True Conc 100	IC For Cc 99	Vs und onc.	Percent Recovery		Percent Recovery Limits 85 - 115	A	Date nalyze 10-05-
QC Batch: Param	70333 Flag (CCV-1)		ICVs True Conc 100 Date Ana	IC For Cc 99	Vs und nc. ).3 2010-05-25	Percent Recovery 99		Percent Recovery Limits 85 - 115	A1 201	Date nalyze 10-05-2
QC Batch: Param Chloride Standard	70333 Flag (CCV-1)		ICVs True Conc 100	IC For Cc 99	Vs und onc. 0.3	Percent Recovery		Percent Recovery Limits 85 - 115 A	An 201 Analyzed B	Date nalyze 10-05-: y: AI Date
QC Batch: Param Chloride Standard	70333 Flag (CCV-1)		ICVs True Conc 100 Date Ana CCVs	IC For Oc 99 Jyzed: CC For Cc	Vs und nc. ).3 2010-05-25 CVs	Percent Recovery 99 CCVs		Percent Recovery Limits 85 - 115 A Percent	An 201 Analyzed By An	Date nalyze 10-05-1 y: Al

Analysis Request of Chain of Cu	
Analysis Request of Chain of Cu	stody Record PAGE: / OF 8
	ANALYSIS REQUEST (Circle or Specify Method No.)
<b>TETRATECH</b> 1910 N. Big Spring St. Midland, Texas 79705 (432) 682-4559 • Fax (432) 682-3946	NUMBER OF CONTAINERS FILTERED (YNU) HCL HCL HCL HCL HCL HCL HCL HCL HCL HCL
CLIENT NAME: SITE MANAGER:	PRESERVATIVE BB CC CL String BB CC CL DC
Brohrns Lohnson Briting The Taverez PROJECT NO .: PROJECT NAME: 1	
114-6400476 Stephenst Johnson / East Millman TB Eddy G NM	CCON Volation 1. Volation 1.
LAB I.D. NUMBER DATE TIME TIME TIME TIME SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS FILTERED (Y/N) HCL HCL HCL HCL HCL HCL HCL HCL
331048 5/5 5 × 13G 10'	
049 / 136 20'	
050 36 30	
057 1 1361 40'	
052 ) / BG 50'	
053     BG 60'	
GR4 (	
OF     / BH-1 3'4'	
050 ) )   BH-1 7'8'	
BELINQUISHED BY, (Signature) 2 Date: 2/7/10 I RECEIVED BY, SKinature	
Time. The K	Time. Tride II Time
RELINQUISHED BY (Signature) Date RECEIVED BY: (Signature)	Time EED5X BUS
RELINQUISHED BY: (Signature) Date: RECEIVED BY: (Signature)	Date.         (HAND DELIVERED)         UPS         OTHER           Time:         TETRA TECH CONTACT PERSON:         Results by.
RECEIVING LABORATORY:         Trait         RECEIVED BY; (Signature)           ADDRESS:	TIME: TIME: TIME:
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