District I 1625 N. French District II 1301 W. Grand . District III 1000 Rio Brazos District IV 1220 S. St. Franc f	Avenue, Arte s Road, Azte cis Dr., Sant	esia, NM 88210 c, NM 87410	0620	Energy Mi Oil (08 1220 Sa	nerals a Conser South inta Fe	vation Di St. France, NM 875	al Resources vision cis Dr.	ctior	1	Submit 2 C District (Revised J Copies to Office in th Rule	appropriate accordance 116 on back side of form
						OPERA	TOR		🗌 Initi	al Report (Final Report
Name of Co						Contact: Pa					<u> </u>	
				1idland, Tx 797			No. (432) 686-3					
Facility Nar	ne: Jalma	t Yates Unit	Battery			Facility Ty	pe: Tank Battery	/	<u> </u>			
Surface Ow	ner Unkr	nown		Mineral C)wner	Unknown			Lease 1	No. NM-30	01048	
				LOCA	TION	NOF RE	LEASE					
Unit Letter A	Section\ 13	Township 25S	Range 36E	Feet from the 1050'		South Line	Feet from the 1100'	East/V East	West Line	County Lea		
		Latit	ude <u>3</u> 2	2 08.101		Longitu	de <u>103</u> 12	2.826				
					URE	OF REL				-		
Type of Relea	ase Produ	ced water and	oil			Volume of BW	f Release 50 BO &	\$ 300	Volume I	Recovered 2	20 BO &	270 BW
Source of Re	lease Oil T	`ank				Date and I 07/06/07	Hour of Occurrence	ce		Hour of Disc @ 11:00 AM		
Was Immedia	ate Notice (Yes 🗍	No 🗌 Not Re	auired	If YES, To	o Whom? Hobbs, NM		07-00-07	@ 11.00 Alv	1 11/01 11	me
By Whom?						Date and I						
COG pumper	Warren H	unt					@ 11:00 AM NM	Time				
Was a Watero	course Read		Yes 🛛	No		If YES, V	olume Impacting (the Wat	ercourse.			
If a Watercou None	irse was Im	pacted, Descr	ibe Fully.	k		I						
	n to remove	e spilled liquid	ls		vater kno	ckout failed	sending water to t	the oil ta	anks. The c	oil tank overf	lowed.	Vacuum
	act. Upon c	completion, si	te was exc	avated to a depth			Tetra Tech person s transported offsi					
I hereby certi regulations al public health should their c	fy that the i il operators or the envir operations h iment. In a	information gi are required t ronment. The nave failed to a addition, NMC	iven above o report ar acceptanc adequately OCD accep	e is true and comp nd/or file certain r ce of a C-141 report investigate and r	elease no ort by the emediate	otifications a NMOCD m contaminat	knowledge and und perform correct harked as "Final R ion that pose a three we the operator of the	tive act eport" d eat to gi	ions for releases not releases not releases not releases round water	eases which n ieve the opera r, surface wat	may end ator of li er, huma	anger ability an health
ź	\sim	0					OIL CON	SERV	ATION	DIVISIO	N	
Signature:	tru	XL. E	llis					1-2	ohus	<u></u>		
		- <u> </u>				Approved by	DistricESupervis	۱ متنبینه ۹				
Printed Name	e: Pat Ellis	3						_		VGINEEK		
Title: Enviror	nmental EH	&S Advisor			/	Approval Da	te: 11.10.1	09	Expiration	Date:		
E-mail Addre	ess: pellis@	conchoresou	rces.com		0	Conditions o	f Approval:			Attached	-F1	
	/03/08		e: (432) 68	6-3023						TIRF	214	SG
Attach Addit	tional Shee	ets If Necess	ary								±	1.02
											-1-	-I-

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SITE INFORMATION

REPORT TYPE: Assessment and Closure Report

Report Date: October 21, 2008

General Site Info	rmation:		October 21, 200	
Site:	······································	Jalmat Yates Unit	Batterv	· · ·
Company:		COG Operating L		· · · · · · · · · · · · · · · · · · ·
Section, Townsh	ip and Range	Section 13	Township 25S	Range 36E
Unit Letter:	<u>, , , , , , , , , , , , , , , , , , , </u>	A		
Lease Number:	- <u> </u>	301048		
County:		Lea County		
GPS:		N 32° 18.101" W	103° 12.826"	
Surface Owner:		Unknown		ti santa an kannan na kannan na kannan kannan kanna kanna L
Mineral Owner:	» · · · · · · · · · · · · · · · · · · ·	Unknown		······································
Directions:	· · · · · · · · · · · · · · · · · · ·	From the intersection	n of highway 18 and 12	in Jal, NM go west on 128 for 1.1 miles.
Directions.				miles and turn left and travel 0.3 miles
· · · · · · · · · · · · · · · · · · ·		to TB located on hill.		mies and turn leit and traver 0.5 miles
Release Data:		Tro To located on fill.		
Date Released:		7/6/2007	\$	· • · · • • • •
Type Release:		Oil and produced v	vater	
Source of Contai	mination:			the oil tank to overflow
Fluid Released:			00 bbls of produced	
Fluids Recovered	d:		70 bbls of producted	
Official Commun		e	• • • • • • • • • • • • • • • • • • • •	· ·
Name:	Diane Kuykendall			lke Tavarez
Company:	COG Operating, LLC)		Tetra Tech
Address:	550 W. Texas Ave. S			1910 N. Big Spring
P.O. Box				
City:	Midland, TX 79701			Midland, Texas
Phone number:	(432) 685-4372			(432) 692- 4559
Email:		horesources.com		iketavarez@tetratech.com
Ranking Criteria			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Depth to Groundw	ater		Ranking Score	Site Data
<50 ft	w.vf.		20	Sile Data
50-99 ft			10	Average Depth > 55
>100 ft.			0	
WellHead Protection	on:		Ranking Score	Site Data
	00 ft., Private <200 ft.		20	None
Water Source >1,00	00 ft., Private >200 ft.		0	
Surface Body of W	'ater:		Ranking Score	Site Data
<200 ft.	· · · · · · · · · · · · · · · · · · ·		20	None
200 ft - 1,000 ft.			10	None
>1,000 ft.		17.7.1.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.	0	
7	otal Ranking Scol	′e:	10	
			-	
			oil RRAL (mg/kg)	
		Benzene	Total BTEX	Total TPH
		10	50	1,000



October 21, 2008

Mr. Larry Johnson Environmental Engineer Specialist Oil Conservation Division- District I 1625 N. French Drive Hobbs, New Mexico 88240 NOV 06 2008

RE: Assessment and Closure Request for two Spills at the Jalmat Yates Unit Battery, Unit Letter A, Section 13, Township 25 South, Range 36 East, Lea County, New Mexico, Operated by COG Operating LLC.

NMOCD Case 1RP-1402

Dear Mr. Johnson:

Tetra Tech (formerly Highlander Environmental Corp.) was contacted by COG Operating LLC (COG) to assess and to remediate the soil impact from a spill that occurred at the Jalmat Yates Unit Battery located in Unit Letter A, Section 13, Township 25 South, Range 36 East, Lea County, New Mexico. The site location is shown on Figure 1 and Figure 2.

Background

Two spills occurred at this site within a one month time period. The first spill was discovered on July 6, 2007, when the free water knockout failed to shut off, sending water to the oil tanks and allowing them to overflow. The spill was contained within the bermed area of the tanks. Approximately 50 barrels of oil and 300 barrels of water were released from the tank with 20 barrels of oil and 270 barrels of water recovered with a vacuum truck. The second spill was discovered on August 7, 2007, when an electrical failure caused the pumps to shut down and allowing the water to continue to flow. Approximately 600 barrels of water were released from the tank with a vacuum truck utilized to recover a majority of the liquid. The spill was contained within the bermed area of the tanks. The initial and final Form C-141's for the two spills (1RP-1402) are included in Appendix C.

Groundwater and Regulatory

The spill area is located in Section 13, Township 25 South, Range 36 East. The State of New Mexico Well Reports did not show any water wells in Section 13. However, there were water wells shown in Sections 19 and 20,



Township 25 South, Range 37 East, with an average groundwater depth of approximately 34' to 44' below surface.

Published data, from the Geology and Groundwater Conditions in Southern New Mexico, showed wells in Section 15 and 23, Township 25 South, Range 36 East with reported depths of 120' and 53.7', respectively. In Sections 17, 19 and 20, Township 25 South, Range 37 East, water wells showed average groundwater depths of approximately 62' to 65' below surface. In addition, the USGS data base reported a depth to water at 51'in the southeast quarter of Section 18, Township 25 South, Range 37 East. A monitor well, located in the western edge of Section 18, reportedly had a water level of approximately 63.0' in 2004. Based on the relative elevation of the Site and surrounding wells, the groundwater appears to be greater than 50.0' below surface. The State of New Mexico Well Reports, USGS report and published reports are included in Appendix A.

A risk-based evaluation was performed for the Site in accordance with the 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. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene and xylene). Based on the regional groundwater data, the proposed RRAL for TPH is 1,000 mg/kg.

Assessment and Corrective Action

On August 10, 2007, Tetra Tech personnel inspected the spill area which measured approximately 70 feet by 20 feet and 65 feet by 8 feet within the berm. A total of six (6) auger holes were installed in the spill area. The auger hole locations are shown on Figure 3.

The soil samples collected were analyzed for Total Petroleum Hydrocarbons (TPH) by method modified 8015 DRO/GRO, benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA method 8021B and chloride by EPA method 300.0. All samples were collected and preserved in laboratory prepared sample containers, shipped under proper chain-of-custody control and analyzed within the standard holding times. The sample results are shown in Table 1. The analytical reports and chain-of-custody are shown in Appendix B.



Referring to Table 1, the samples from AH-1 (0-1'), AH-3 (0-1') and AH-4 (0-1') exceeded the RRAL for TPH with concentrations of 1,409 mg/kg, 1,628 mg/kg, and 12,575 mg/kg. The remaining samples at 0-1' were below the RRAL for TPH and BTEX. The chloride concentrations ranged from 112 mg/kg (AH-2, 0-1') to 1,090 mg/kg (AH-6, 0-1').

In order to complete delineation of the site, on April 25, 2008, Tetra Tech personnel were onsite to install three (3) soil borings (SB-1 through SB-3) utilizing an air rotary rig. The borings were installed in the vicinity of the auger holes which exhibited elevated chloride concentrations which were not defined (AH-1, AH-3, and AH-4). The soil borings were extended to a maximum depth of 7 feet below ground surface (bgs) with samples collected at the surface and the terminus of the borings. Samples were submitted to the laboratory for analysis of TPH and chlorides. Analytical results indicated the maximum extent of TPH impact greater than 1,000 mg/kg extended to 2 feet bgs in soil boing SB-3. Chlorides decreased with depth and ranged from <100 mg/kg in several borings to a high of 757 mg/kg in SB-1 at 0-2'. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix B. The results of the sampling are summarized in Table 2. The location of the borehole and auger hole locations are shown in Figure 3.

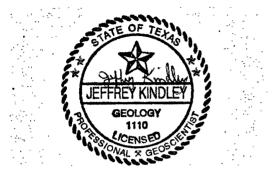
Upon completion of the delineation, COG personnel were onsite to excavate and remove the first two feet of soil from the site. The excavated soils were transported offsite for disposal at Sundance Disposal in Eunice, New Mexico. The site was then backfilled and brought up to grade with clean soil.

Conclusion

The spill from the two releases caused a shallow hydrocarbon impact to the subsurface soils, which were excavated to below NMOCD RRAL. Chloride concentrations were at or below 757 mg/kg and decreased with depth, while BTEX was below the RRAL at the site. Due to the remediation of the TPH and the decreasing chloride concentrations with depth, groundwater (which is greater than 50 feet bgs at the site) does not appear to be at risk of impact from residuals remaining in the soils. Based on the results and remedial activities performed, COG requests closure for the Site. The two final Form C-141's are included in Appendix C.



If you require any additional information or have any questions or comments, please contact us at (432) 682-4559.



Tetra Tech

Jeffrey Kindley, P.G.

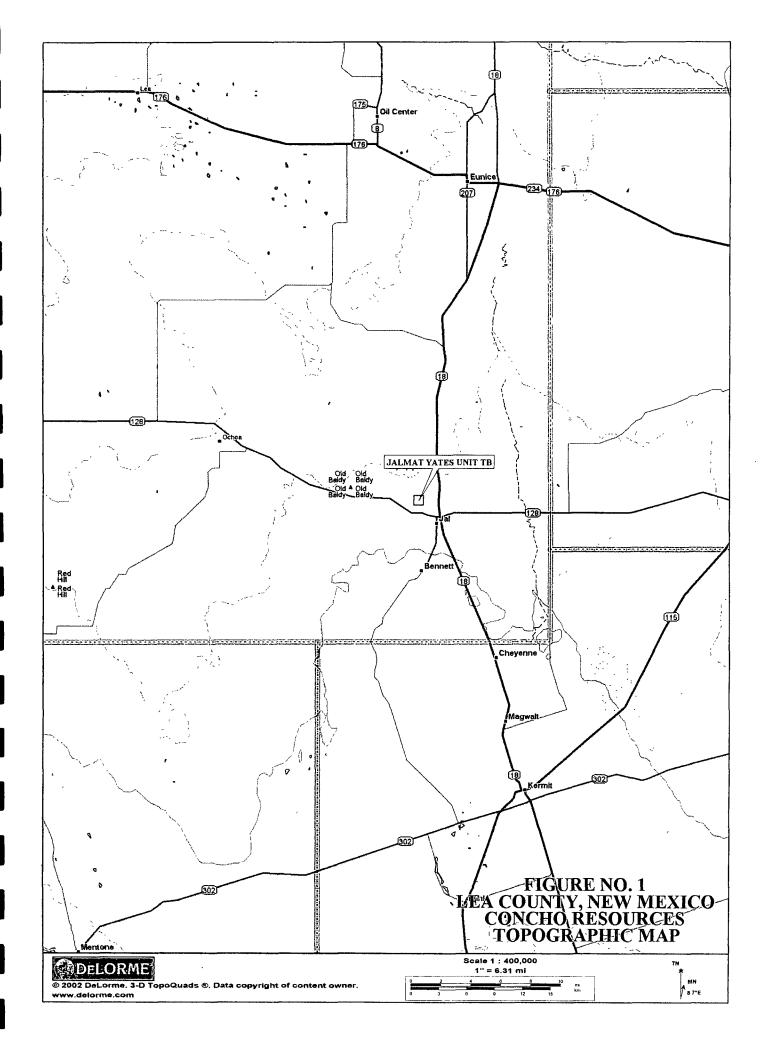
Senior Geologist

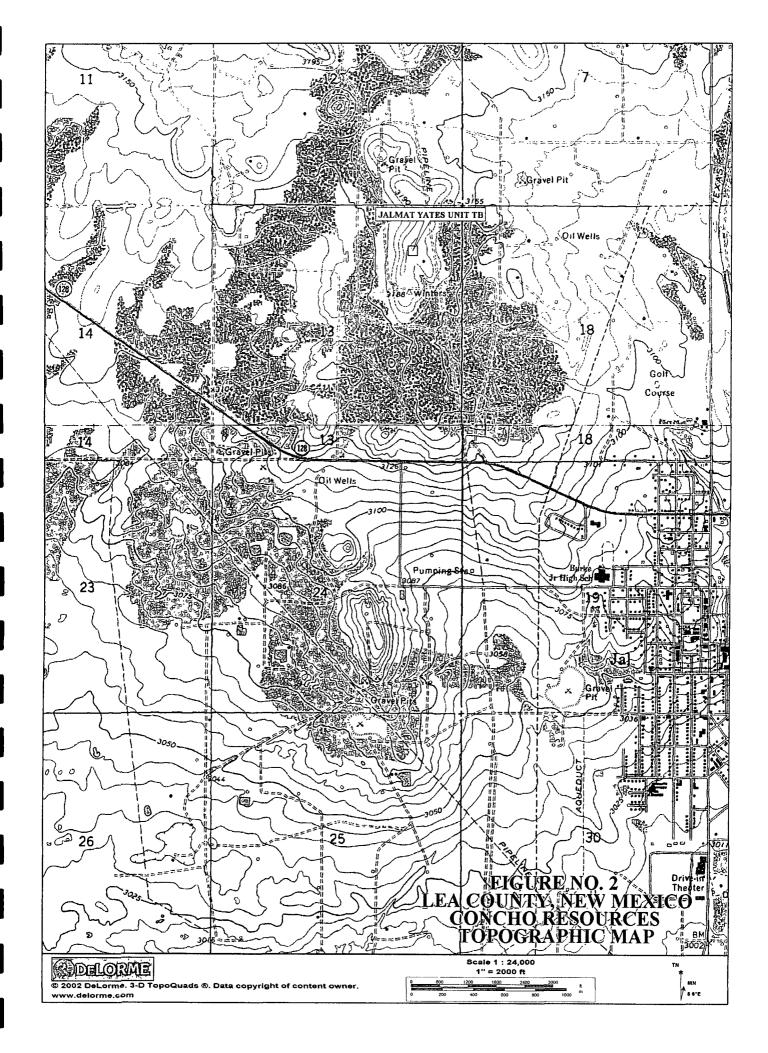
cc: COG - Pat Ellis

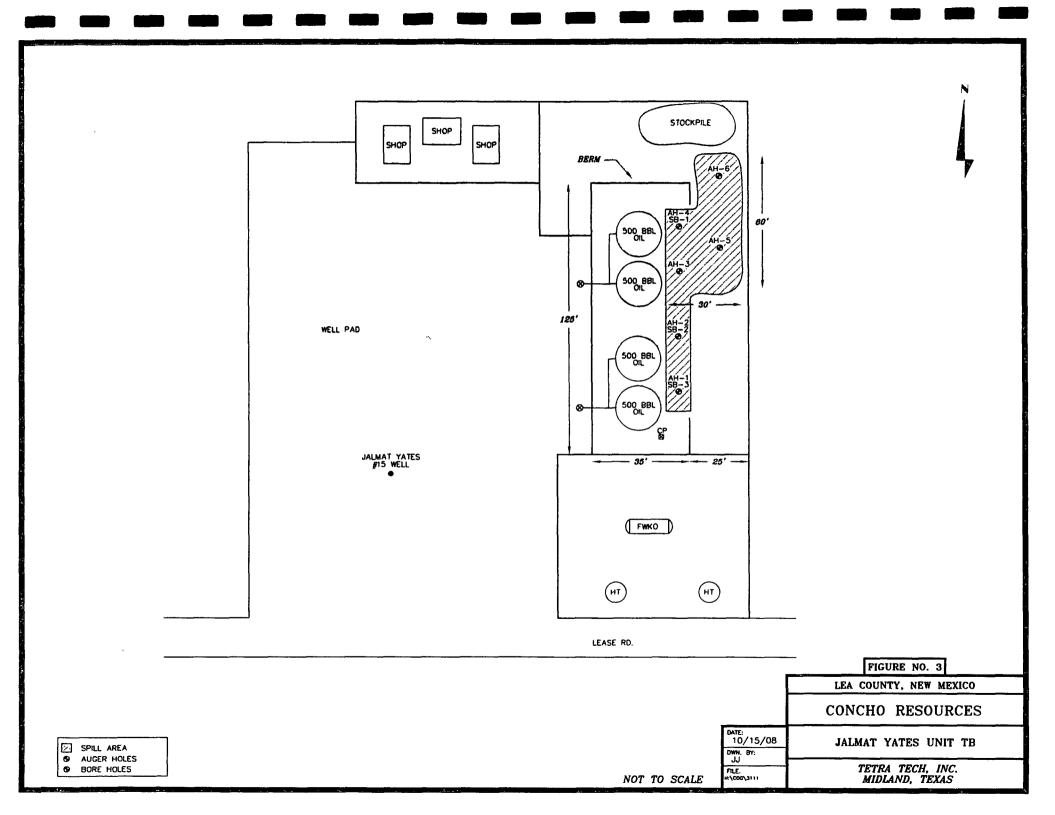
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FIGURES







TABLES

Table 1COG Operating LLCJalmat Yates Tank BatteryLea County, NM

Sample	Soils S	Status	Date	Sample		TPH (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Chloride
D	Insitu	Removed	Sampled	Depth (ft)	DRO	GRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-1		X	08/10/07	0-1.0	1,030	379	1,409	0.402	0.0607	2.90	7.67	266
AH-2		X	08/10/07	0-1.0	704	304	1,008	< 0.0500	<0.0500	0.935	0.695	112
AH-3		X	08/10/07	0-1.0	1,590	119	1,709	0.0848	0.116	0.869	2.33	389
AH-4		X	08/10/07	0-1.0	12,200	375	12,575	0.618	0.504	3.63	11.5	134
AH-5		X	08/10/07	0-1.0	204	8.32	212.32	<0.0100	<0.0100	<0.0100	<0.0100	315
<u>/ 11 5</u>				0 1.0	201	0.52	212.52	-0.0100			-0.0100	510
AH-6		X	08/10/07	0-1.0	178	2.69	180.69	< 0.0100	< 0.0100	<0.0100	< 0.0100	1,090

(-) Not Analyzed

Table 2 COG Operating LLC Jalmat Yates Tank Battery Lea County, NM

Sample	Soils	Status	Date	Sample		TPH (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Chloride
D	Insitu	Removed	Sampled	Depth (ft)	DRO	GRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SB-1		X	04/24/08	0-2	<50.0	<1.00	<50.0	-	-	-	_	757
SB-1	X		04/24/08	5-7	-	-	-	-	-	-	-	504
SB-2		x	04/24/08	0-2	<50.0	<1.00	<50.0	-			-	121
SB-2	X		04/24/08	5-7		-	-	-	-	-		<100
SB-3		x	04/24/08	0-2	2,370	545	2,915	-	-		-	125
SB-3	X		04/24/08	5-7	111	43.6	154.6	-	-			<100

(-) Not Analyzed

APPENDIX A WATER WELL INVENTORY

Water Well Data Average Depth to Groundwater (ft) COG - Jalmat Yates Unit Battery, Lea County, New Mexico

	24 S	outh	3	5 East	<u>t</u>		24 \$	South	3	6 East			24 S	outh	37	Zeast	
6	5	4	3	2	1	6	5	4 165	3	2	1	6	5 111	4	3	2	1
7	8	9	10	11	12	7	8	9	10	11	12	7	8	9	10	11 64	12 1
			300									119	90		120		
18	17	16	15	14	13	18	17	16	15	14	13	18	17	16	15	14	13
									312	1		124		67			
19	20 97	21	22	23	24	19	20	21	22	23	24	19	20	21	22	23 94	24
										160				69			100
30	29	28	27	26	25	30	29	28	27	26	25	30	29	28	27 41	26	25 89
														70			90
31	32	33	34	35	36	31	32	33 54	34	35	36	31	32	33	34	35	36
								53							55		
			_													_	
	25 S			5 East	and the second			South		6 East		1		outh		' East	
6	5	4	3 10	8 2	1	6 295	5	4	3	2	1	6	5	4	3	2	1
	165	L					ļ				_						60
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			_				ļ		180						50	ļ	. ć
18 <i>·</i>	17	16	15	14	13	18	17	16	15	14	13	18Site	17	16	15	14	13 7
230									120		SITE	51	62		59.2		81
19	20	21	22	23	24	19	20	21	22	23	24		20 65	21	22	23	24
20		218					00		27	53.7	455	62	34		26		255
30	29	28	27	26	25	30	29	28	27	26	25	³⁰ Jal		28	27	26	25
80	32	33	34	35	36	24	32	33 80	0.4	35	36		219 32			75 35	55
31	32	33	34	35	30	31	32	33 80	34	35	36	31	32	33 86	34	1	36
		1					I		L					1		185	
	26 Se	outh	3	5 East			26.9	South	3	6 East			26 5	outh	37	' East	
6	15	4	3	2		6	5	4	3	2	1	6	15	4	13	2 100	1
	ľ			1		-						Ē		ľ	ľ	103	ľ
7	8	9	10	11	12	7	8	9 175	10	11	12	7	8	9 85	10	111	12 9
-	ľ	ľ	1.2	1		ľ	ľ	177				196	Ĩ	Ĭ	` `		102
18	17	16	15	14	13	18	17	16	15	14	13	18	17	16	15	14 100	102
						220									1	95	1
19	20	21	22	23	24	19	20	21	22	23	24	19	20	21	22	23	24
						198				151		185					
30	29	28	27	26	25	30	29	28	27	26	25	30	29	28	27	26	25
													86	1	120		
31	32	33	34	35	36	31	32	33	34	35	36	31	32	33	34	35	36
	1	1	1	1			E Contraction of the second se	1		1			1	1			1.1

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

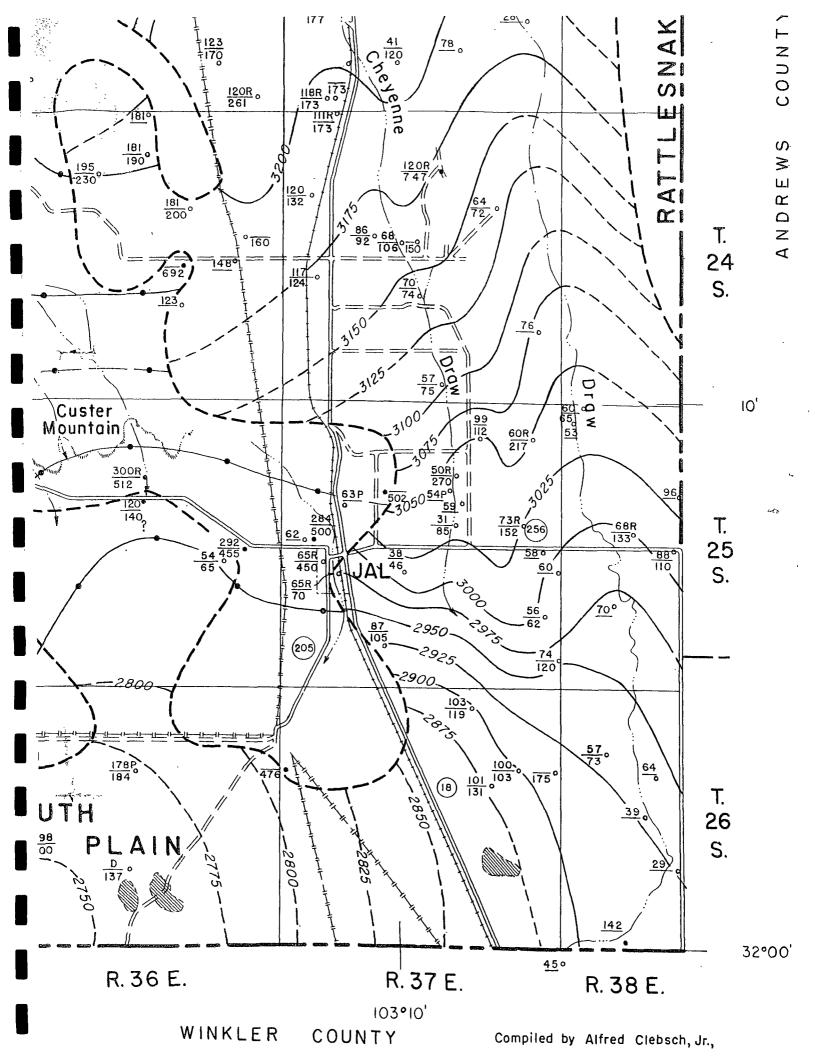


TABLE 6. RECORDS OF	WELLS IN	SOUTHERN LEA	COUNTY, N	N. MEX.	(continued)
---------------------	----------	--------------	-----------	---------	-------------

					Wate	r level					
Location No.	Owner	Aquifer	Depth of well (feet)	Altitude of well (feet)	Depth be- low land surface (feet)	Date meas- ured	- Year com- pleted	Surface diam- eter of wells	Method of lift	Use of water	Remarks
24.34.35.122	do.	Tr	258M	3,410	223.9	3-29-53		6	Lw	S	
24.34.35.122	do.	Tr	150 ± M		139.6	11-27-53		6	Lw	s	_
24.36.3 111		To		3,400	181.1	3-12-53	_	71/2	N	N	_
3.333	Charles Whitten		$190 \pm M$	- •	181.1	3-12-53	_	111/2	N	N	_
9 1 3 3	do.	To	230	3,395	195.0	3-6-53	1948	7	N	N	_
13.314	Humble Oil Co	To	160			_	1941	_	-	_	WBZ sand, 138-158 feet. EY 10 gpm.
24 36 15.222	Canmex Oil Co	To	200	3,370	181.3	3-12-53	1937	7	Ľw	D	-
22.220	Continental Oil Co.	Τr	692	3,340		_	_	81/4	Li	D	A. H. Meyers "A" well 1. Intake set at about 475 feet Maximum yield 6 gpm.
23 222	. —	To	-	3,345	147.9	3- 6-53	-	61⁄4	Lw	I	Measurement made inside pipe col- umn.
27.221	R. Wilson	To	-	3,320	122.9	3.6-53	-	10	N	N	
24.37.5.111	ÉPNG	To	173	3,275	111	9-8-52	1952	10%	Те	In D	Jal Plant 4, well 6.
7.431	Fowler Hair	To	132M	3,300	119.9	3-6-53		61⁄4	N	N	
10.123	Trinity Produc- tion Co.	Τr	747	3,260	120	253	1953	-	Li	In	EY 42 gpm. Chemical analysis in • table 8.
14.211	Fowler Hair	To(?)	72M	3,205	64.5	3-3-53		5	N	N	
24.37.16.342	_	To	106M	. 3,235	67.7	3-11-53	_	9	N	N	
16.423	Humble Oil Co.	То	150	3,240	-	_	1951	65⁄8	Те	D	Fowler-Ellenburger Camp well 1. WBZ 90-150 feet.
17.422	Fowler Hair	To	92M	3,260	86.5	3-4-53	-	71/2	N	N	_
19.234	_	To	124M	3,290	117.4	3 - 5 - 5 3		10	Lw	S	
21.444	Dollarhide Water Co.	Τo	74M	3,210	69.6	3- 2-53	-	71/2	N	N	-
25.322	Fowler Hair	Το	_	3,136	76.1	3- 3-53		61/2	Lw	D,S	-
34.320	Plains Produc- tion Co.	To	$75 \pm M$	1 3,160	56.8	3-2-53	-	12	N	N	
25.33.20.443	_	Τr		3,395	200-250	8-18-58		6	Lw	D,S	—
31.244	Nick Ritz	Тг	320	3,400	257.5	7-26-54		8	Lw	S	_
25.34.1.132	Madera Ranch	Tr	300+	3,385	231.0	4-15-53		6	N	N	-

												•
25.34.15.242	_	Tr	168	3,335	164.9	7-23-54		10	Lw	S	-	GROUND
25.35.10.223	Georgia Bryant	To	83M	3,180	76.9	4-2-53	-	9	Lw	S		ò
21.122		Tr		3,230	173.3	4-2-53	-	81/2	N	N	_	S
25.36.10.313	W. D. Dinwiddie		512	3,130	300	-	-	-	Lw	S	-	Ä
15.111	do.	Tr(?)	140	3,125	120.2	353	1951	-	Ν	N	-	2
~ 23.234		Qal	65M	3,070	53.7	3-31-53	-	61/2	Lw	S	-	WATER
24.112	Humble Oil Co.	Ττ	455	3,115	292.4	4-15-53	-	—	N	N	-	A
25.37.1.340	Pure Oil Co.	To	217	3,108	60	_		20	Te	In,D		E
2.332	Richmond Drill- ing Co.	To	112M	3,140	98.8	8.29.53	-	7	Lw	D	-	R
9.333	Stanolind Oil Co.	Tr	502	3,140	-		1938	-	Lw	D	WBZ 470-502 feet.	
10.412	EPNG	To	270	3,120	50	12-20-49	1949	12	Te	In,D	Jal Plant 3, well 2.	
10.433	M. B. Owens	То		3,100	54.3	2-26-53		71/2	Lw	S	MWP	
13.312a	City of Jal	То	152	3,080	73	654	1954	12	Te	Р	New city well. EY 750 gpm. Chem- ical analysis in table 8.	LEA
25.37.15.221	I. M. Owens	To		3,100	59.2	2-26-53	_		Ti	In	EY 30 gpm. PR.	
15.223	Sun Oil Co.	То		3,090		-		_	Lw	D	Chemical analysis in table 8.	6
15.411	-	Qal	85M	3,070	31.1	2-26-53		61⁄2	N	N	, <u> </u>	q
17.114		Qal		3,105	62.8	3- 5-53	_	_	Lw	S	MWP	Z
19.211		τo		3,088	62.3	5-30-55		6	Je	D	<u> </u>	COUNTY
19.221	City of Jal	Tr	500	3,110	284.0	11-11-54	1948	10	Ň	N	Chemical analysis in table 8.	
19.240	do.	Tr	450	3,040	65	1942	-	-			Old public-supply well. WBZ 70-450 feet. EY (1942) 50 gpm. Chemical analysis in table 8.	
20.310	do.	Qal	70	3,035	65	1-18-42	-	6×6 ft.	-	-	Dug. WBZ "clayey sand" 65-70 feet. EY 50 gpm. Chemical analysis in table 8.	
25.37.20.413	EPNG	Tr	419	-		_		10%4	Je	In,D	Jal General Camp well 1.	
21.411	G. B. Hadfield	To	46M	3,050	38.2	2-12-53	_	6	Lw	S	ÉY l gpm.	
24.211	_	To	_	3,071	58,4	2-12-53		6	N	N		
24.422	_	To		3,050	60.2	2-12-53	-	8	Ň	N	-	
25.411	_	To	62M	3,055	56.4	2-12-53	_	6	N	N		
33.114	Olsen Oil Co.	Qal	105	3,000	87.4	2-16-53	-	12	N	N		
36.244		τõ	120	3 035	74.2	2-13-53		10	N	N	-	
25.38 6 122	Fowler Hair	To	65M	3,100	60.5	3- 3-53		61/2	Lw	S	_	
6 134		To		3,095	53.1	2-25-53	_	3	N	Ň	Cased shothole.	
9.343	_	To	_	3,130	95.7	2-25-53	_	61/2	Lw	D,S	EY 30 gpm.	~
5.5 45				-,		40.00						8

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TABLE 6. RECORDS OF WELLS IN SOUTHERN LEA COUNTY, N. MEX. (continued)

					Water	level					
Location No.	Owner	Aquifer	Depth of well (feet)	Altitude of well (feet)	Depth be- low land surface (feet)	Date meas- ured	- Year com- pleted	Surface diam- eter of wells	Method of lift		Remarks
25.38 19.342	Pure Oil Co.	To(?)	133	3,061	68	1952	_			In	Dollarhide Gasoline Plant well 2.
21.121	Tom Linebury	To	110	3,103	87.7	2-12-53		7	Lw	S	
29.131	- '	Oal		3,040	69.9	2-15-53		6	Lw	Ň	
26.32.21.322	Battle Ax Ranch		253	3,140	180	7-23-54	-		Li	D,S	
26.33.3.444	W. D. Dinwiddie		180	3,315	102.8	7-23-54	-	6	N	N	
3.444a	do.	Qal	-	3,315	-	_	_	6(?)	Lw	s	Chemical analysis in table 8. Located 50 feet west of 26.33 3.444.
9.443		Qal(?)	_	3,280	106.6	7-26-54	-	-	Lw	S	
22.433	Battle Ax Ranch	Qal	200(?)	3,270	79.7	7-26-54	_	6	Lw	S	_
26.34.6.213		Ťr	360	3,330	141.9	7-23-54	-	8	Lw	S	
6.35.13.222		Qal	_	2,990	229.1	12-12-58	_	7	Lw	S	Chemical analysis in table 8.
26.36.9.440	Frank Antheys	Qal	184M	2,940	177.8	12-12-58		7	Lw	D,S	MWP
18.311	City of Jal	Qal	559	2,981	220.8	3-17-60	1960	24	Te(?)	Р	Yield 453 gpm. Gravel packed, WB2 275-300, 400-465, 500-530 feet.
19.233	do.	Qal	700	2,950	198.0	-	1960	24	Te(?)	P	Yield 408 gpm. Gravel packed. WB2 270-280, 400-480, 550-600, 670-680 feet.
21.443	-		137(?)	2,900	Dry	12-11-58	~	11	N	N	_
26.37.2.133	Clyde Cooper	Qal(?)	119	3,000	103.4	2-16-53	1937	8	Lw	S	
7.331	EPNG	Ťr	476	2,960		_	1937	85/8	Te	In,D	Jal Plant I, well I.
12.314	-	Qal		3,010	102.3	2-16-53		91/2	N	Ń	
12.331	-	Qal	$103 \pm M$	1 3,000	99.9	2-17-53	-	3	Ν	N	Cased shothole.
12.441	Humble Oil Co.	Qal	175		-		1944	-	-	_	WBZ 125-150 feet. EY 68 gpm.
14.122	-	Qal	131M	2,985	100.6	2-17-53		3	N	N	Cased shothole.
26.38.7.244	Tom Linebury	Qal	73	3,000	57.1	2-24-53	-	81/2	N	N	· · · · · · · ·
8.444	do.	Qal	66	3,000	64.5	2-24-53		61/2	·Lw	S	
17.414	do.	Qal	_	2,975	39.4	2-24-53		51/2	Lw	s	-
21.344	do.	Qal	-	2,955	29.0	2-13-53		3	N	Ň	Cased shothole.
32.141	đo.	(?)TT	-	2,950	142.4	2-13-53		26	N	N	

TABLE 7. RECORDS OF SELECTED WELLS IN TEXAS ADJACENT TO SOUTHERN LEA COUNTY, N. MEX.Explanations of symbols are included in the headnotes of Table 6.

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					Wate	r level					
Location No.	Owner	Aquifer	Depth of well (feet)	Altitude of well (feet)	Depth be- low land surface (feet)	Date meas- ured	Year com- pleted		Method of lift		Remarks
				Gai	nes County "	Гех.					
A-12.25.341		То	50(?)	3,545	40.8	12-9-53		6	Lw	N	_
A-28.3.413	Greenwood	-	- ``	3,485	35.1	12-9-53	-		Lw	S	-
				Andr	ews County,	Tex.					
A-29.17.320	H. O. Sims	(?)oT	82	3,510	79.4	7-28-40			Lw	S	***
A-39.4.420	do.	To`´	81	3,478	72.4	10- 9-53		61/2	Lw	S	_
A-39.14.111	Humble Oil Co.	-	215	3,410	Dry		_			-	-
A-40.16.330	M. L. Goins	To	80	3,305	74.1	10-15-53	_		Lw	D,S	-
				Win	kler County,	Tex.					
C-22.6	Tom Linebury	Qal		2,940	45.0	2-13-53	-	6	N	N	

NEW MEXICO BUREAU OF MINES & MINERAL RESOURCES

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GROUND WATER

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			<i>Office of the Sta</i> ports and Dow			
Town	nship: 25S	Range: 35E	Sections:			
NAD27	X:	Y:	Zone:		Search Radius:	
County:	B	asin:	ેલ્ટ કેર્સ - ૨૨ - ૨૨ - ૨૨ - ૨૨	Numb	ber: Suff	ix:
Owner Name: (I	First)	(L	ast) © All		⊖Non-Domestic	⊖ Domestic
	POD / Sur	face Data Repor	t) (A) ter Column Repo iWATERS M	ort]	to Water Report	

AVERAGE DEPTH OF WATER REPORT 03/08/2006

							(Depth 1	Water in	Feet)
Bsn	Tws	Rng Sec	Zone	Х	Y	Wells	Min	Max	Avg
С	25S	35E 05				1	165	165	165
С	25S	35E 18				1	230	230	230
С	25S	35E 21				2	205	230	218

		New Mexico O POD Rej	<i>Office of the St</i> ports and Dov							
	Township: 25S	Range: 36E	Sections:							
	NAD27 X:	Y:	Zone:		Search Radius:					
County	County: Basin: Number: Suffix:									
Owner	Owner Name: (First)(Last)ONon-DomesticOnon-Domestic© All									
	POD / Si	Irface Data Repor	t A ter Column Rep		h to Water Report					
		Clear Form	WATERS N	<u>Menu</u>	Help					

		AVERA	GE I	DEPTH (OF WATER	REPORT	03	/08/200)6		
Bsn	Tws	Rng	Sec	Zone	x	Ŋ	<u>.</u>	Wells	(Depth Min	Water Max	Feet) Avg
No	Record	ls fou	nd,	try a	gain						

New Mexico Office of the State Engineer POD Reports and Downloads									
Township: 25S	Range: 37E	Sections:							
NAD27 X:	Y:	Zone:	Sea Sea	rch Radius:					
County: Ba	sin:		Number:	Suffix:					
Owner Name: (First)	(Las	st) @All	ON	on-Domestic OD	omestic				
POD / Surface Data Report Avg Depth to Water Report Water Column Report Clear Form iWATERS Menu Help									

AVERAGE DEPTH OF WATER REPORT 03/08/2006

							(Depth 1	Water in	Feet)
Bsn	Tws	Rng Sec	Zone	х	Y	Wells	Min	Max	Avg
СР	25S	37E 19				9	27	63	44
СР	25S	37E 20				6	23	60	34
СР	25S	37E 29				5	187	250	219
СР	25S	37E 35				1	185	185	185

Record Count: 21

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			<i>ico Office of th</i>) Reports and	-				
Town	ship: 25	S Range: 3	7E Section	s:				
NAD27	X:	Y: ,	Zone:	24-41. 124-41. 24-13-14	Search Ra	dius:		
County:		Basin:		🐹 Numl	per:	Suf	ffix:	
Owner Name: (H	First)		(Last) @All		⊖Non-Do	mestic	c ⊖Do	mestic
	POD /	Surface Data F	Water Column	Report	to Water Re	port		
. <u></u>		Clear For	.	RS Menu		-		
			POD / SURI	FACE DATA	REPORT 03	3/08/:	2006	(qua
	(acre	ft per ann	ստ)					(qua (qua
DB File Nbr	Use	Diversion	Owner			POD 1	Number	-
<u>CP 00120</u>	COM	31.2	CHAPARRAL SI				00120	
<u>CP 00121</u>	COM	15.6	CHAPARRAL SI		NC.		00121	
<u>CP 00124</u>		31.2 0	CHAPARRAL SI J. M. OWEN	ERVICES, 1	NC.		00124	
<u>CP 00211</u> CP 00216	DOM DOM	0	J. M. OWEN				00211 D 00216 D	
CP 00217	DOM	0	J. M. OWEN				00210 E	
CP 00219	DOM	Õ	J. M. OWEN				00219 E	
CP 00299	DOM	0	J. J. SMITH				00299 E	
<u>CP 00300</u>	STK	0	J. J. SMITH			CP	00300 I	OCL
CP 00387	DOM	3	PAUL S. BAL	LINGER			00387 1	
							00387 F	
CP 00388	DOM	0	JAKE MC KOW	EN		-	00387 F 00388 F	
CP 00425	COM	70	PAUL PRATHE		BRINE SAL		00425	
CP 00428	DOM	3	ANNICE KATH	LEEN BUTTE	ER	CP	00428	
<u>CP 00429</u>	_ DOM	3	HOMER E. MO				00429	
<u>CP 00444</u>	_ DOM	3	D. C. BUFFI				00444	
<u>CP 00460</u> CP 00461	DOM DOM	3 0	E. W. RUSCH GOERGE L. B		νρανιγ		00460 00461 I	
CP 00487	DOM	3	L. L. REED		IL AN I	CP	00487	
CP 00506	DOM	3	CHARLES D.	TAFF		CP	00506	
CP 00507	SAN	3	UNION TEX P	ETE CO.		CP	00507	
<u>CP 00515</u>	_ DOM	3	JOHN SHROYE	R		CP	00515	
<u>CP 00518</u>	DOM	0	V.B. BROCK			CP	00518 1	
<u>CP 00526</u>	_ DOM	0	A.D. KEMP			CP	00526 1	EXP
<u>CP 00533</u> CP 00534	_ DOM DOM	3	A.D. KEMP DAN COX			CP CP	00533	
<u>CP 00534</u> CP 00541	_ DOM DOM	3	BILLY W. MO	SLEY		CP CP	00534 00541	· · · · · · · · · · · · · · · · · · ·
CP 00557	DOM	3	LUCILLE BOC			CP	00557	<u></u>
CP 00565	DOM	3	SAM R. BEAI			CP	00565	
CP 00607	DOM	3	RAYMOND F.	GRAY		CP	00607	

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	ws Rng Sec 4S 35E 10	Zone	x	Y Well	Ls Mi 1 30		Avg 300				

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	(Clear Form) (iWATERS M	1enų)	Help						
AV	AVERAGE DEPTH OF WATER REPORT 03/08/2006										

(Depth Water in Feet) х Y Wells Tws Rng Sec Zone Bsn Min Max Avg СΡ 36E 04 24S 3 155 178 165 2 СР 24S 36E 15 173 450 312 СР 24S 36E 20 1 97 97 97 СР 24S 36E 23 1 160 160 160 53 СР 24S 36E 33 1 53 53

		<i>Office of the Sta</i> ports and Dow	-		
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Owner Name: (First)	(L	ast) @ All	\bigcirc Non-	Domestic C Dome	stic
POD/S	Surface Data Repor	L) Av ter Column Repo	g Depth to Wate	r Report	
	Clear Form	iwaters m	enu Help		
AVERAGE DEPT	H OF WATER REP	ORT 03/08/200)6		

							(Depth	Water in	Feet)
Bsn	Tws	Rng Sec	Zone	х	У	Wells	Min	Max	Avg
СР	24S	37E 05				1	106	106	106
СР	24S	37E 08				1	90	90	90
СР	24S	37E 23		i.		1	94	94	94
CP	24S	37E 24				1	100	100	100
CP	24S	37E 25				1	90	90	90
СР	24S	37E 28				1	70	70	70

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		<i>Office of the State El</i> ports and Downloa	0	
Township:	26S Range: 35E	Sections:		
NAD27 X:	Y:	Zone:	Search Radi	us:
County:	Basin:	Nui Nui	mber:	Suffix:
Owner Name: (First)	(La	ast) © All	⊖Non-Dom	estic ODomestic
PO	D / Surface Data Repor Wa	t Avg De ter Column Report	pth to Water Repo	ort
	Clear Form	WATERS Menu	Help	
AVERAGE D	EPTH OF WATER REP	ORT 03/08/2006		

Bsn		Rng Sec	Zone	x	Wells	 Water in Max	Feet) Avg
No	Records	s found,	try again				

New Mexico Office of the State Engineer POD Reports and Downloads							
Township: 26	S Range: 36E	Sections:					
NAD27 X:	Y:	Zone:		Search Radius:			
County:	Basin:		Numbe	r: Suff	x:		
Owner Name: (First)	(La	ast) @ All	() Non-Domestic	() Domestic		
POD / Surface Data Report Avg Depth to Water Report Water Column Report							
	Clear Form	IWATERS N	<u>1enu</u>	Help			

		AVERA	AGE	DEPTH	OF	WATER	REPORT	03	3/08/200	06			
										(Depth	Water	in	Feet)
Bsn	Tws	Rng	Sec	Zone	e	х	2	Ľ	Wells	Min	May	c	Avg
No	Record	ds fou	und,	try a	agai	in							

Bsn Tws Rng Sec Zone

No Records found, try again

Page	1	of	1
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	New Mexico C POD Rej	<i>office of the Si</i> ports and Dov	-	er.	
Township: 26S	Range: 37E	Sections:			
NAD27 X:	Y:	Zone:	S S	earch Radius:	
County:	Basin:		Number:	Suf	fix:
Owner Name: (First)	(La	ast) @All	O	Non-Domestic	• O Domestic
POD / S	urface Data Repor	t A er Column Rep	10279-0-129-02-04-04-04-04-04-04-04-04-04-04-04-04-04-	Water Report	
	Clear Form	(iWATERS I	Menu F	lelp	
AVERAGE DEPTH	OF WATER REP	ORT 03/08/20		Water in Fee	E)
Bsn Tws Rng Sec Zon	e X	Y Wells	Min	Max A	

Avg

CP	00460	DOM	3	E. W. RUSCHE	CP	00460	Shallow	25S	37E 19	213
CP	00461	DOM	0	GOERGE L. BUCKLES COMPANY	CP	00461 DCL		25S	37E 10	432
CP	00487	DOM	3	L. L. REED	CP	00487	Shallow	25S	37E 29	12
CP	00506	DOM	3	CHARLES D. TAFF	CP	00506		25S	37E 29	2
CP	00507	SAN	3	UNION TEX PETE CO.	CP	00507		25S	37E 05	42
CP	00515	DOM	3	JOHN SHROYER	CP	00515	Shallow	25S	37E 19	243
CP	00518	DOM	0	V.B. BROCK	CP	00518 EXP		25S	37Ë 19	124
CP	00526	DOM	0	A.D. KEMP	CP	00526 EXP		25S	37E 19	144
CP	00533	DOM	3	A.D. KEMP	CP	00533	Shallow	25S	37E 19	144
CP	00534	DOM	3	DAN COX	CP	00534	Shallow	25S	37E 19	241
CP	00541	DOM	3	BILLY W. MOSLEY	CP	00541	Shallow	25S	37E 19	224
CP	00557	DOM	3	LUCILLE BOCK WEBB	CP	00557	Shallow	25S	37E 20	333
CP	00565	DOM	3	SAM R. BEAIRD	CP	00565		25S	37E 19	123
CP	00607	DOM	3	RAYMOND F. GRAY	CP	00607	Shallow	25S	37E 19	122
CP	00608	DOM	3	FLOYD MCCUNE MATHIS	CP	00608		25S	37E 19	1 1 1
CP	00619	DOM	3	JOHN T. SWINFORD	Ċ₽	00619	Shallow	25S	37E 20	31
CP	00620	DOM	3	D. E. BAILEY	CP	00620	Shallow	25S	37E 20	133
CP	00638	DOM	3	DONALD R. TRICE	CP	00638	Shallow	25S	37E 29	1 1
CP	00661	DOM	3	D. E. BAILEY	CP	00661	Shallow	25S	37E 20	133
CP	00710	DOM	3	S. A. SEARCY	CP	00710	Shallow	25S	37E 19	223
CP	00777	DOM	3	GUAN D. MILLER	CP	00777	Shallow	25S	37E 20	324
CP	00782	INJ	0	ARCO OIL AND GAS COMPANY	CP	00782	Shallow	25S	37E 24	1 1 2
CP	00783	INJ	0	ARCO OIL AND GAS COMPANY	CP	00783	Shallow	25S	37E 23	121
CP	00784	INJ	0	ARCO GAS AND OIL COMPANY	CP	00784	Shallow	25S	37E 23	143
CP	00844	STK	0	TRUSTEES/JAL PUBLIC LIBRARY	CP	00844		25S	37E 17	33
CP	00888	DOM	3	CLAY & GERALDINE (JERI) OSBORN	CP	00888		25S	37E 18	224
CP	00889	DOM	3	CLAY & GERALDINE (JERI) OSBORN	CP	00889		25S	37E 07	332
CP	00891	DOM	3	CLAY & GERALDINE (JERI) OSBORN		00891		25S	37E 18	223
CP	00892	DOM	3	CLAY & GERALDINE (JERI) OSBORN	CP	00892		25S	37E 18	223
CP	00893	DOM	3	CLAY & GERALDINE (JERI) OSBORN	CP	00893		25S	37E 18	224
CP	00894	DOM	3	CLAY & GERALDINE (JERI) OSBORN	CP	00894		25S	37E 18	224
CP	00900	POL	0	SHELL PIPELINE COMPANY LP	CP	00900	Shallow	25S	37E 32	434
CP	00901	POL	0	SHELL PIPELINE COMPANY LP	CP	00901	Shallow	25S	37E 32	434
CP	00902	POL	0	SHELL PIPELINE COMPANY LP	CP	00902	Shallow	25S	37E 32	434
CP	00903	POL	0	SHELL PIPELINE COMPANY LP	CP	00903	Shallow	25S	37E 32	434
CP	00904	POL	0	SHELL PIPELINE COMPANY LP	CP	00904	Shallow	25S	37E 32	434
CP	00905	POL	0	SHELL PIPELINE COMPANY LP	CP	00905	Shallow	25S	37E 32	434
CP	00906	POL	0	SHELL PIPELINE COMPANY LP	CP	00906	Shallow	25S	37E 32	434
CP	00909	STK	3	GEORGE WILLIS	CP	00909	Shallow	25S	37E 35	4 4 4

New Mexico Office of the State Engineer

Page	1	of	2
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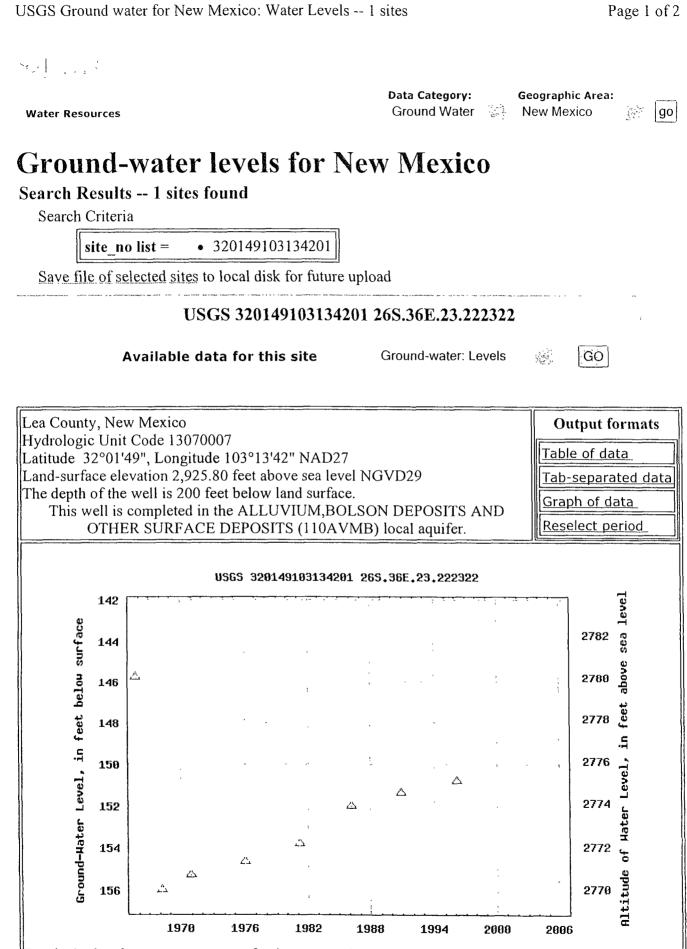
		Office of the State Engineer ports and Downloads
Township: 25S	Range: 37E	Sections:
NAD27 X:	Y:	Zone: Search Radius:
County: B	asin:	Number: Suffix:
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POD / SURFACE DATA REPORT 03/08/2006

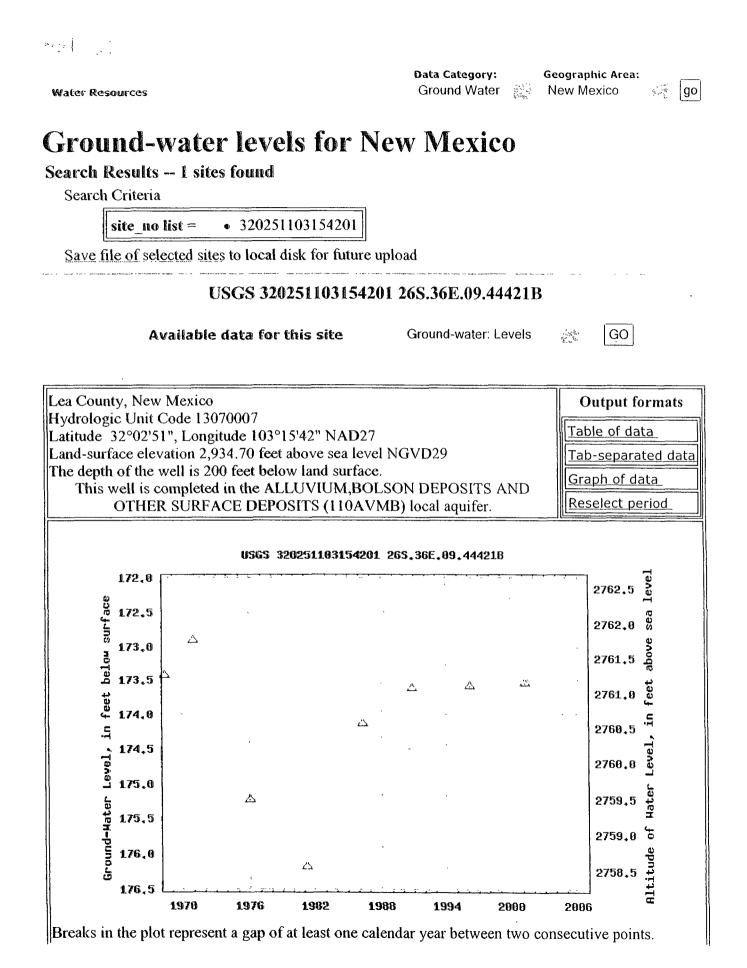
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DB	File Nbr	Use	Diversion	Owner	POD	Number	Source	Tws	Rng Se	cqq	I q
CP	00120	COM	31.2	CHAPARRAL SERVICES, INC.	CP	00120	_ Shallow	25S	37E 20	23	1
CP	00121	COM	15.6	CHAPARRAL SERVICES, INC.	CP	00121	_ Shallow	25S	37E 20	24	3
CP	00124	COM	31.2	CHAPARRAL SERVICES, INC.	CP	00124	_	25S	37E 20	24	1
CP	00211	DOM	0	J. M. OWEN	CP	00211 DCL	_	25S	37E 21	24	3
CP	00216	DOM	0	J. M. OWEN	CP	00216 DCL	_	25S	37E 22	12	2
CP	00217	DOM	0	J. M. OWEN	CP	00217 DCL	_	25S	37E 10	43	4
CP	00219	DOM	0	J. M. OWEN	CP	00219 DCL	_	25S	37E 10	43	3
CP	00299	DOM	0	J. J. SMITH	CP	00299 DCL	_	25S	37E 03	24	2
CP	00300	STK	0	J. J. SMITH	CP	00300 DCL	_	25S	37E 03	42	1
CP	00387	DOM	3	PAUL S. BALLINGER	CP	00387 1	_ Shallow	25S	37E 29	23	
					CP	00387 REPAR 1	_Shallow	25S	37E 29	23	
					CP	00387 REPAR 2	Shallow	25S	37E 29	23	
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CP	00608	DOM
CP	00619	DOM
CP	00620	DOM
CP	00638	DOM
CP	00661	DOM
CP	00710	DOM
CP	00777	DOM
CP	00782	INJ
CP	00783	INJ
CP	00784	INJ
CP	00844	STK
<u>CP</u>	00888	DOM
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CP	00893	DOM
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CP	00909	STK

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3	JOHN T. SWINFORD	CP	00619
3	D. E. BAILEY	CP	00620
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3	GEORGE WILLIS	CP	00909

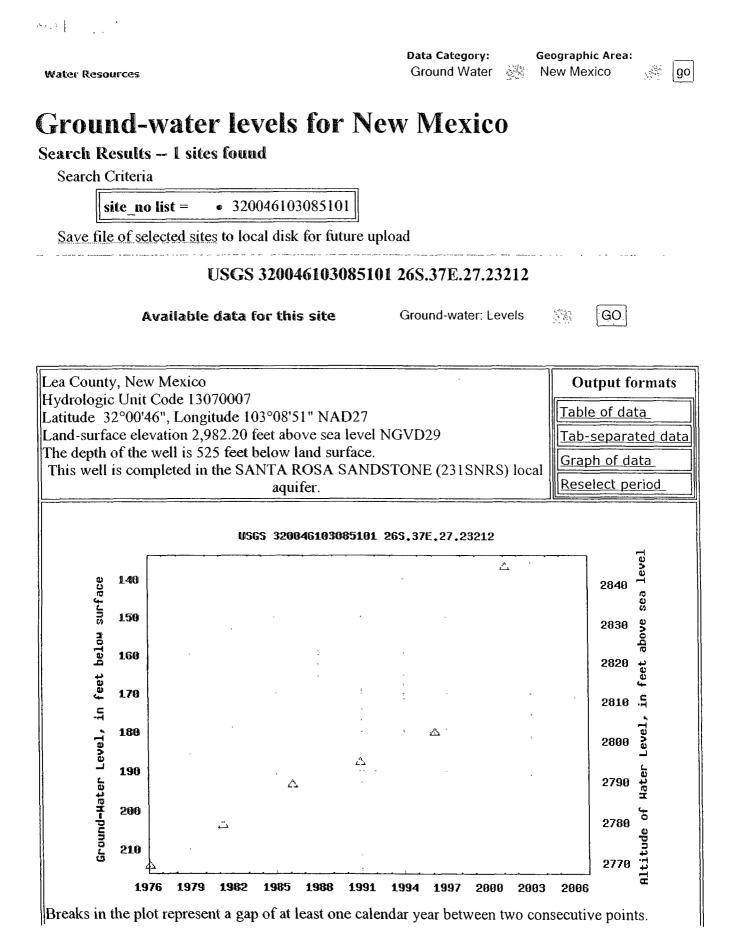


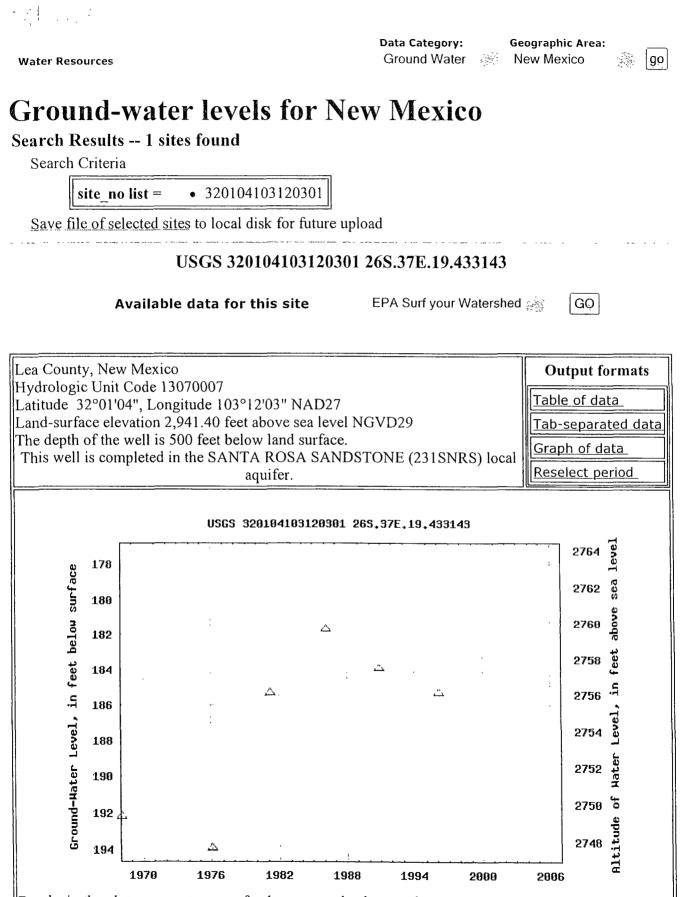
Breaks in the plot represent a gap of at least one calendar year between two consecutive points.



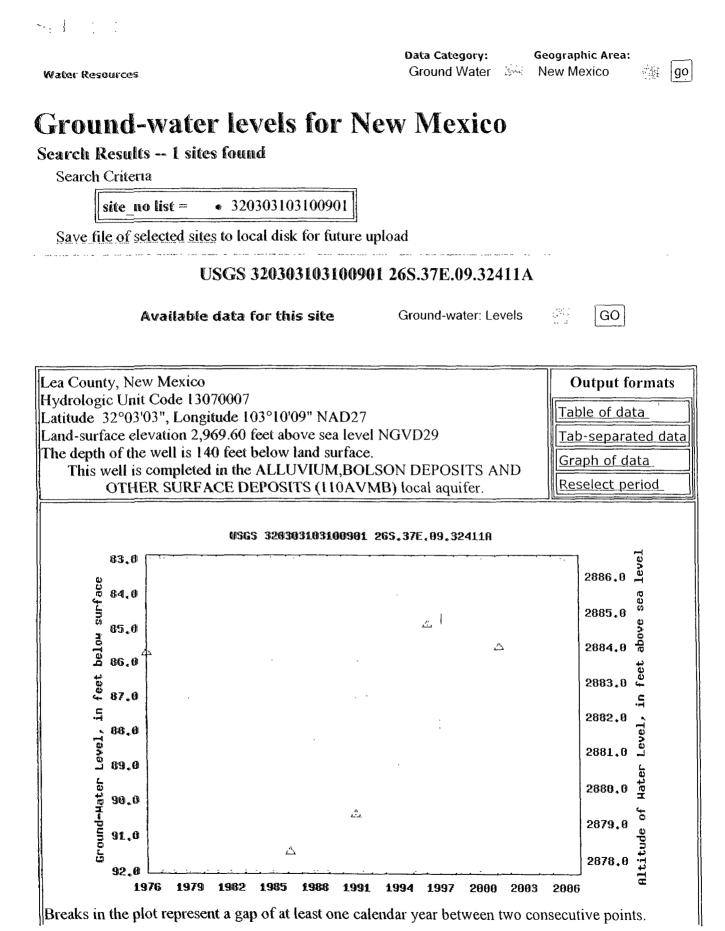
USGS Ground water for New Mexico: Water Levels -- 1 sites Page 1 of 2 - . . Data Category: **Geographic Area:** Ground Water **New Mexico** 1 go Water Resources **Ground-water levels for New Mexico** Search Results -- 1 sites found Search Criteria • 320042103103901 site no list = Save file of selected sites to local disk for future upload USGS 320042103103901 26S.37E.29.24230 Ground-water: Levels Available data for this site GO Lea County, New Mexico **Output formats** Hydrologic Unit Code 13070007 Table of data Latitude 32°00'42", Longitude 103°10'39" NAD27 Land-surface elevation 2,945.70 feet above sea level NGVD29 Tab-separated data The depth of the well is 115 feet below land surface. Graph of data This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND Reselect period OTHER SURFACE DEPOSITS (110AVMB) local aquifer. USGS 320042103103901 265.37E.29.24230 85.0 leve. 2860.5 feet below surface 85.5 2860.0 Δ above 86.0 2859.5 \sim feet 86.5 2859.0 Ŀ. 87.0 2858.5 Level Ground-Mater Level, 凸 87.5 Δ Hater 2858.0 88.0 2857.5 ÷ Δ 88,5 Altitude 2857.0 盃 89.0 1970 1976 1982 1988 1994 2000 2006

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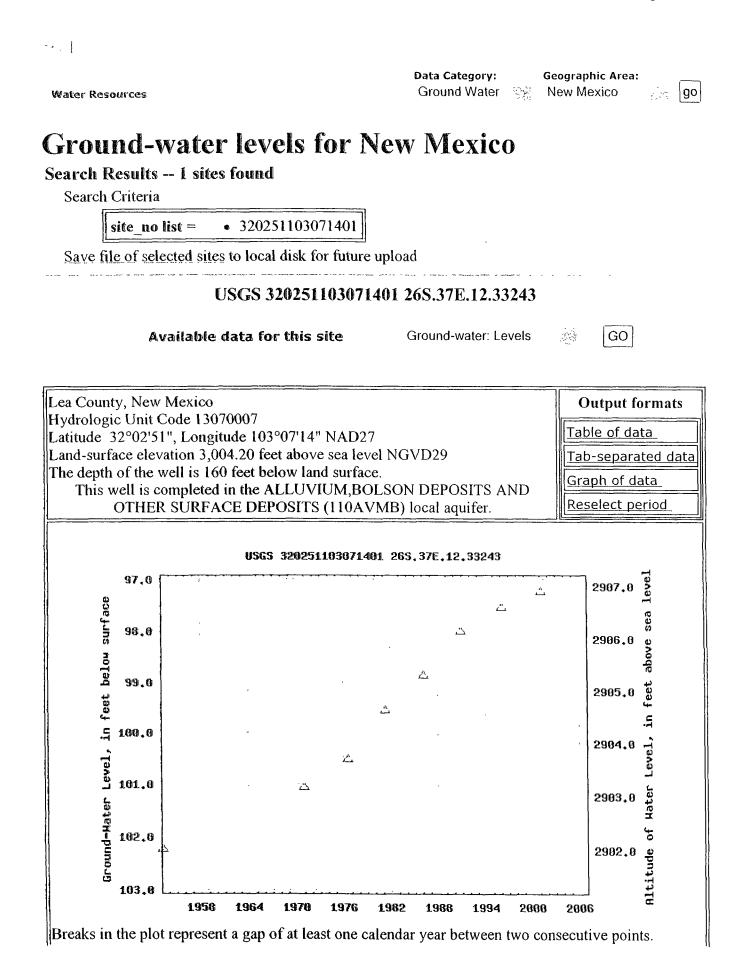




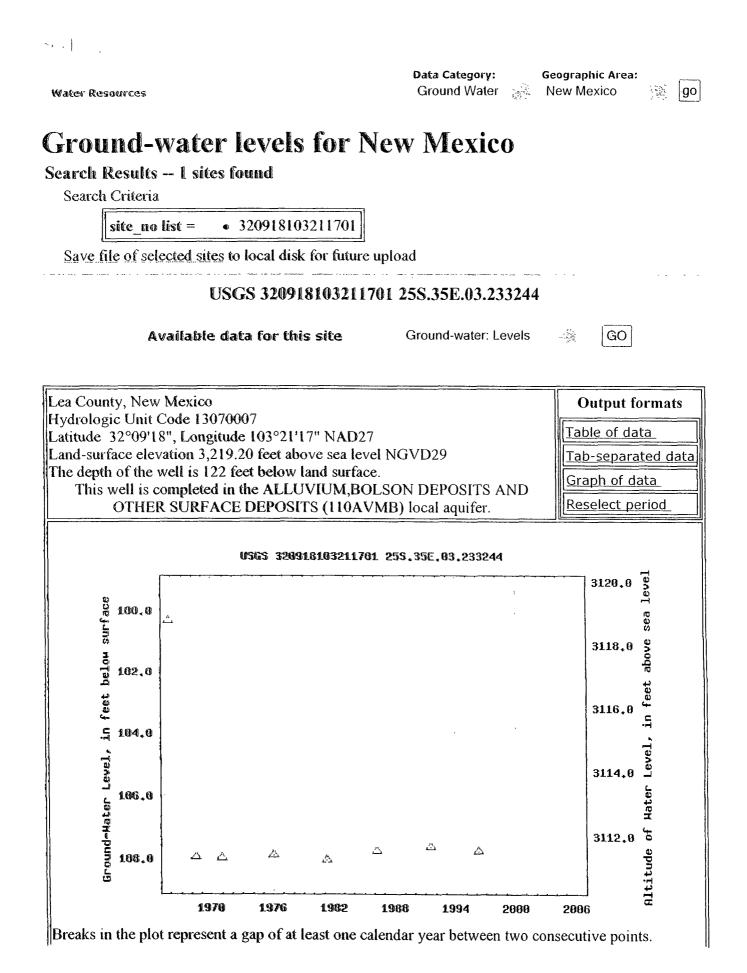
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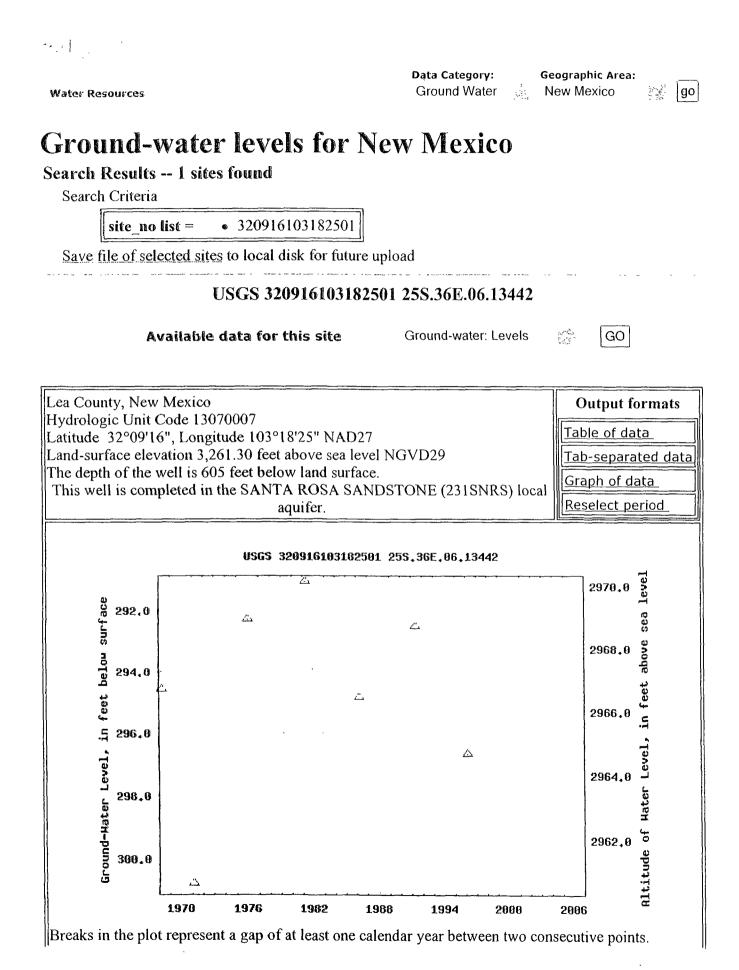
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USGS Ground water for New Mexico: Water Levels -- 1 sites Page 1 of 2 111 Data Category: **Geographic Area:** Ground Water 63 **New Mexico** go Water Resources **Ground-water levels for New Mexico** Search Results -- 1 sites found Search Criteria site no list = • 320309103080401 Save file of selected sites to local disk for future upload USGS 320309103080401 26S.37E.14.122122 GO Available data for this site Ground-water: Levels Lea County, New Mexico **Output formats** Hydrologic Unit Code Table of data Latitude 32°03'09", Longitude 103°08'04" NAD27 Land-surface elevation 2,998.90 feet above sea level NGVD29 Tab-separated data The depth of the well is 131 feet below land surface. Graph of data This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND Reselect period OTHER SURFACE DEPOSITS (110AVMB) local aquifer. USGS 320309103080401 265.37E.14.122122 leve] 95,0 surface ے sea ت 2903.0 96.0 above 4 feet below 2902.0 97,0 feel Ŀ. یت 2901.0 98.0 Ground-Hater Level, -evel 凸 æ 2900.0 99,0 Hater Δ 2899.0 £ 100.0 ŝ Altitude 101.0 2898.0 1958 1964 1970 1976 1982 1988 1994 2000 2006



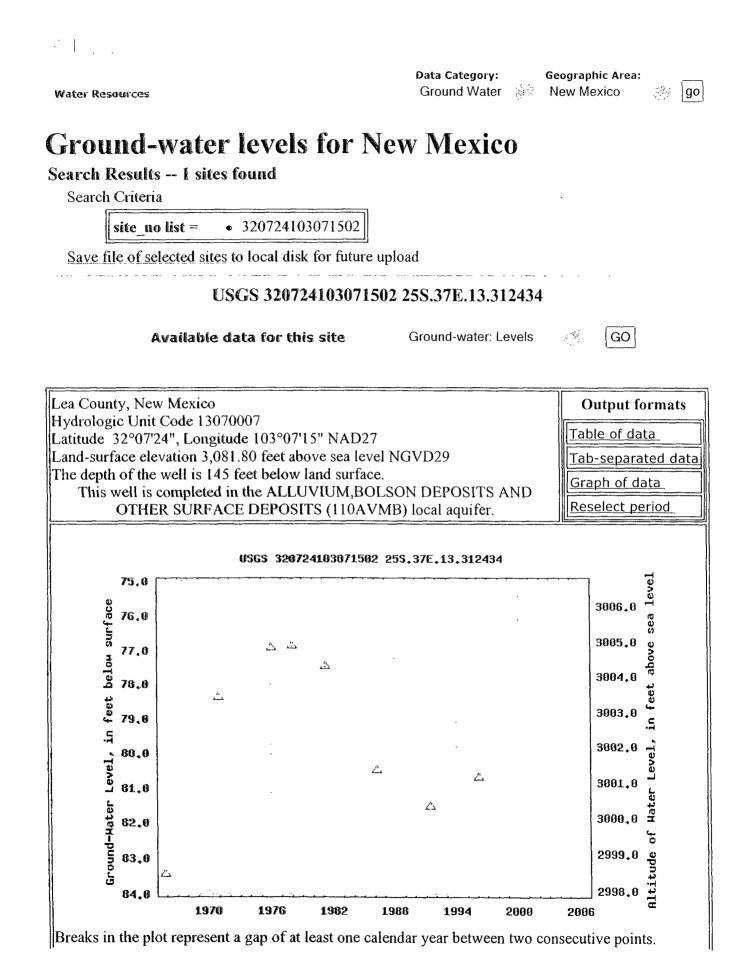
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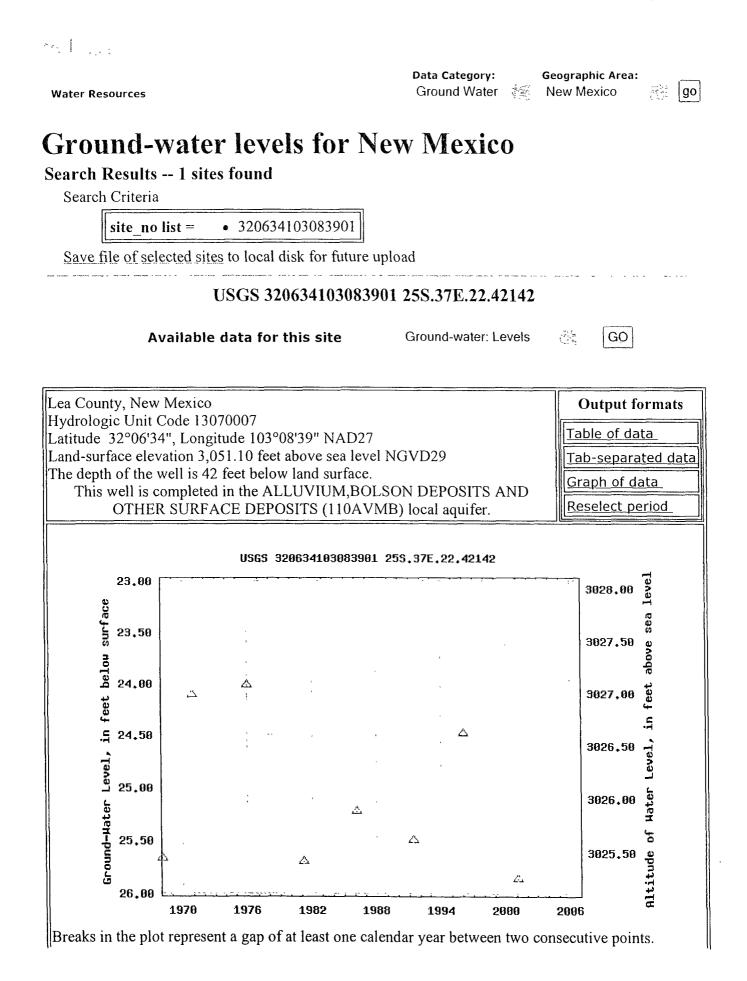


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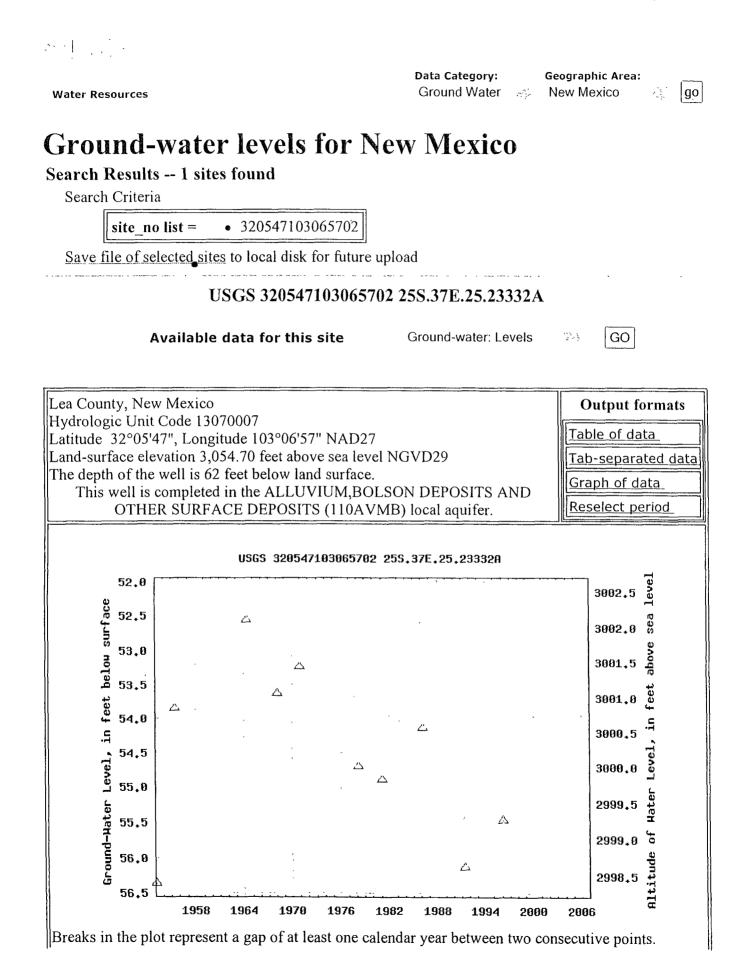
USGS Ground water for New Mexico: Water Levels -- 1 sites Page 1 of 2 te 1 . . . **Data Category: Geographic Area:** Ground Water New Mexico go Water Resources **Ground-water levels for New Mexico** Search Results -- 1 sites found Search Criteria • 320639103071301 site no list = Save file of selected sites to local disk for future upload USGS 320639103071301 25S.37E.24.14333 Available data for this site Ground-water: Levels GO Lea County, New Mexico **Output formats** Hydrologic Unit Code 13070007 Table of data Latitude 32°06'39", Longitude 103°07'13" NAD27 Land-surface elevation 3,075.10 feet above sea level NGVD29 Tab-separated data The depth of the well is 901 feet below land surface. Graph of data This well is completed in the RUSTLER FORMATION (312RSLR) local Reselect period aquifer. USGS 320639103071301 255.37E.24.14333 sea leve. in feet below surface 235 2840 ů. above 240 2835 feet 25 245 2830 \simeq Ground-Hater Level, Level 4 250 2825 Hater ð 255 2820 **Altitude** △ 1970 1976 1982 1988 1994 2000 2886

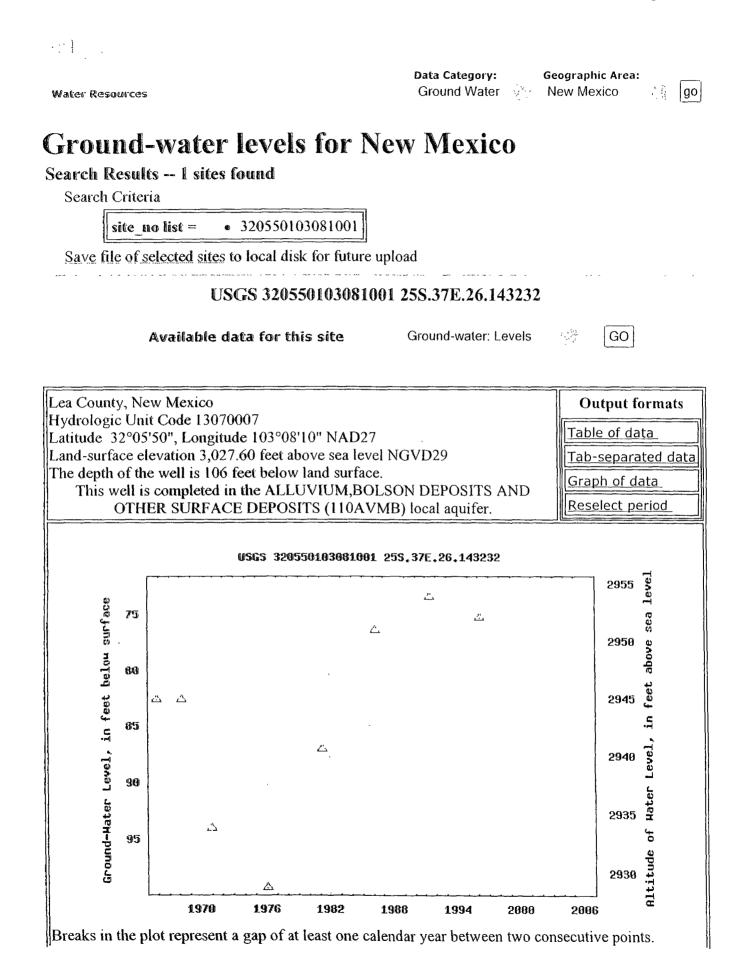
USGS Ground water for New Mexico: Water Levels -- 1 sites Page 1 of 2 Data Category: **Geographic Area:** Ground Water New Mexico go Water Resources **Ground-water levels for New Mexico** Search Results -- 1 sites found Search Criteria site no list = • 320651103110202 Save file of selected sites to local disk for future upload USGS 320651103110202 25S.37E.20.231342A Available data for this site Ground-water: Levels GO Lea County, New Mexico **Output** formats Hydrologic Unit Code 13070007 Table of data Latitude 32°06'51", Longitude 103°11'02" NAD27 Land-surface elevation 3,071.70 feet above sea level NGVD29 Tab-separated data The depth of the well is 510 feet below land surface. Graph of data This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND Reselect period OTHER SURFACE DEPOSITS (110AVMB) local aquifer. USGS 320651103110202 255,37E,20,231342A 35.0 3036.0 below surface 36.0 \simeq 3035.0 37.0 3034.0 38.0 ۵ feet 3033.0 39.0 5. Δ 3032.0 40.0 Level, 3031.0 41.0 Ground-Hater Hat 3030,0 42.0 ŝ 3029.0 **Altitude** 43.0 Δ 3028.0 44.0 1970 1976 1982 1988 1994 2000 2006





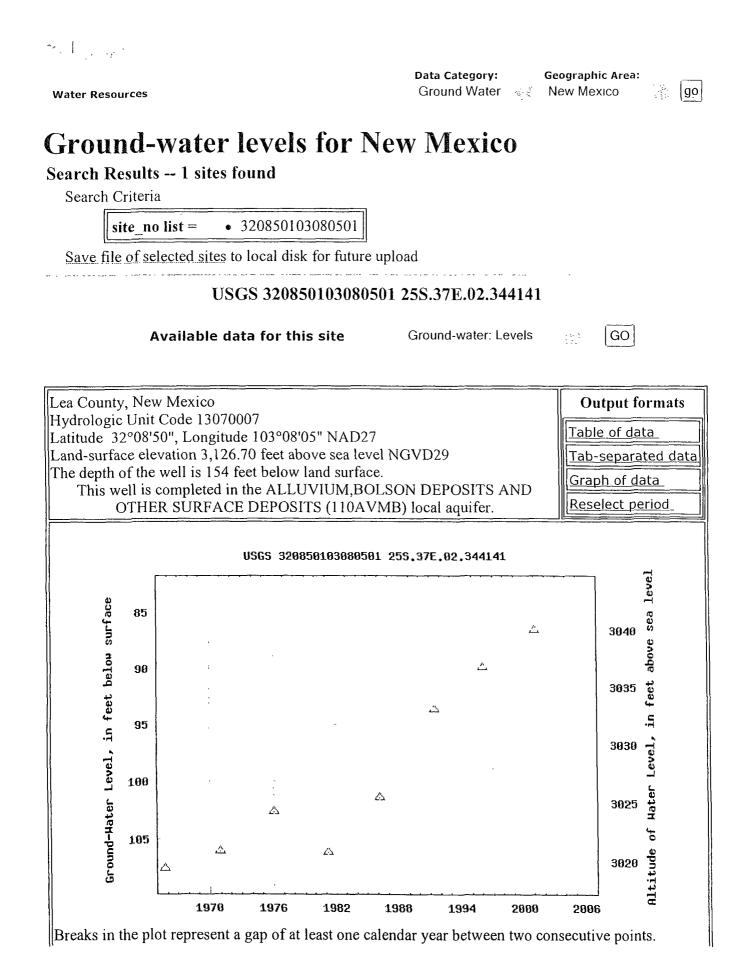
USGS Ground water for New Mexico: Water Levels -- 1 sites Page 1 of 2 Data Category: Geographic Area: Ground Water New Mexico 63 go Water Resources **Ground-water levels for New Mexico** Search Results -- 1 sites found Search Criteria • 320510103101301 site no list = Save file of selected sites to local disk for future upload USGS 320510103101301 25S.37E.33.11444 Available data for this site Ground-water: Levels GO Lea County, New Mexico **Output formats** Hydrologic Unit Code 13070007 Table of data Latitude 32°05'10", Longitude 103°10'13" NAD27 Land-surface elevation 3,001.70 feet above sea level NGVD29 Tab-separated data The depth of the well is 105 feet below land surface. Graph of data This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND Reselect period OTHER SURFACE DEPOSITS (110AVMB) local aquifer. USGS 320510103101301 255,37E,33,11444 85.00 Je. 2916,50 surface sea 85,50 2916.00 pelor belos belos feet د"، \triangle 2915,50 Δ. Ę, Ļ ۵ 86.50 \simeq Ground-Mater Level, Level 2915,00 87.00 Hater 凸 2914,50 ť 87.50 **Altitude** 2914.00 ~ 88,08 1958 1964 1976 1976 1982 1988 1994 2000 2006

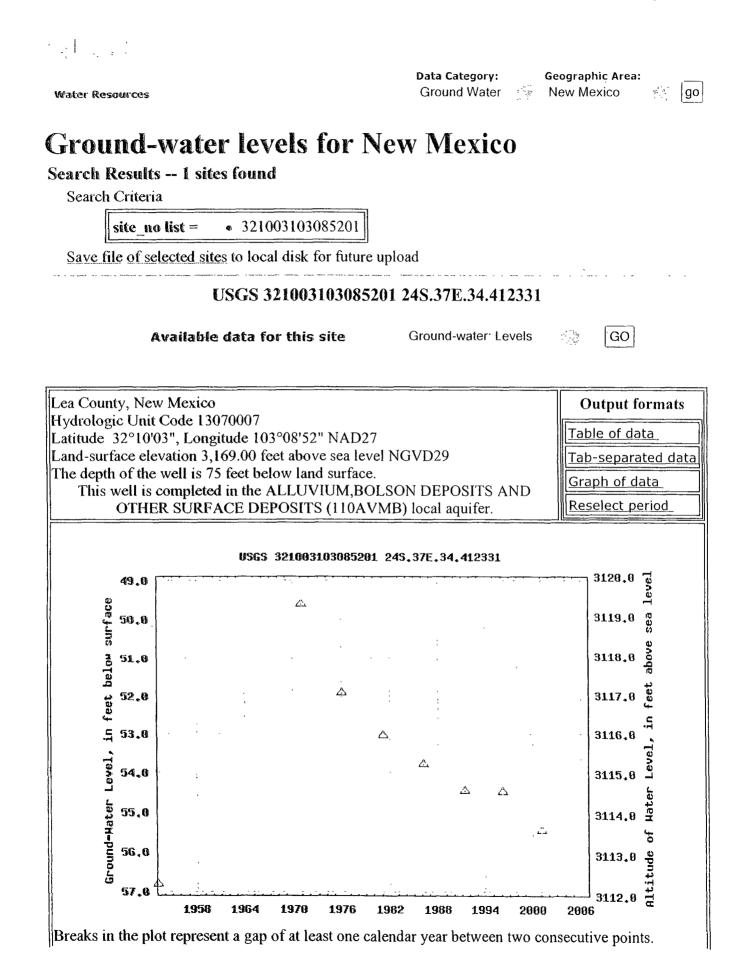


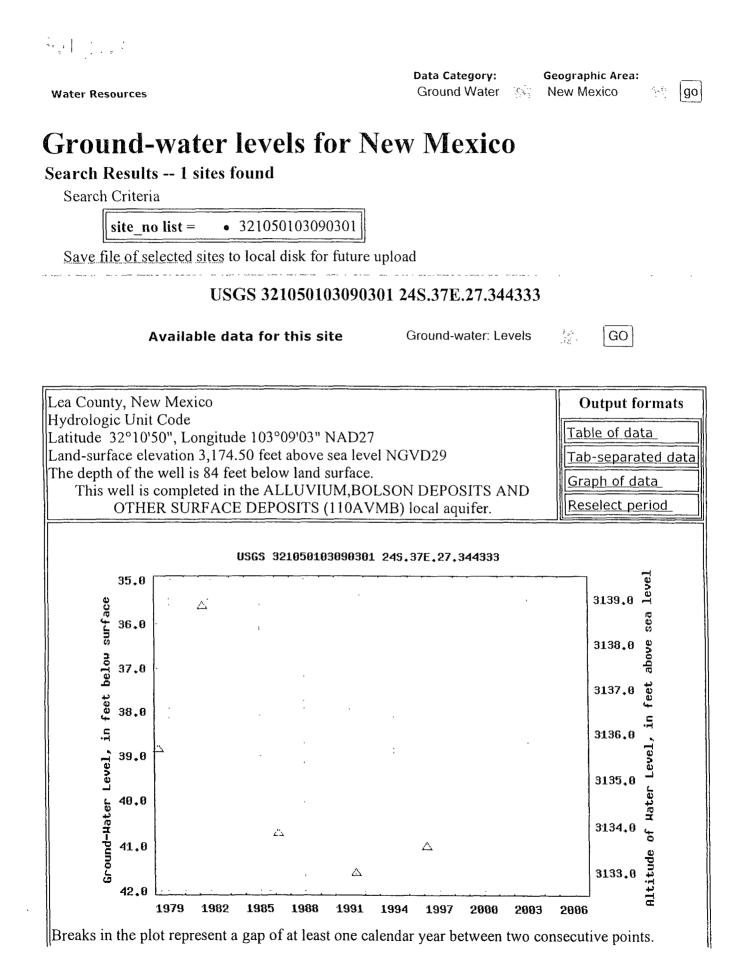


USGS Ground water for New Mexico: Water Levels -- 1 sites Page 1 of 2 Data Category: Geographic Area: Ground Water 🛛 🐇 New Mexico Water Resources gõ **Ground-water levels for New Mexico** Search Results -- 1 sites found Search Criteria site no list = • 320730103114801 Save file of selected sites to local disk for future upload USGS 320730103114801 25S.37E.18.421110 Available data for this site Ground-water: Levels GÒ . . Lea County, New Mexico **Output formats** Hydrologic Unit Code 13070007 Table of data Latitude 32°07'30", Longitude 103°11'48" NAD27 Land-surface elevation 3,107.20 feet above sea level NGVD29 Tab-separated data The depth of the well is 100 feet below land surface. Graph of data This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND Reselect_period OTHER SURFACE DEPOSITS (110AVMB) local aquifer. USGS 320730103114801 255,37E,18,421110 3060 [eve] 48 surface sea 3058 50 above 3056 in feet below \sim 52 Δ feet 3054 54 2. 3852 -5 56 Ground-Hater Level, 3050 58 <u>~</u> 3048 60 \triangle 24 3046 ò 62 Altitude ۵ 3844 64 1976 1970 1982 1988 1994 2000 2006

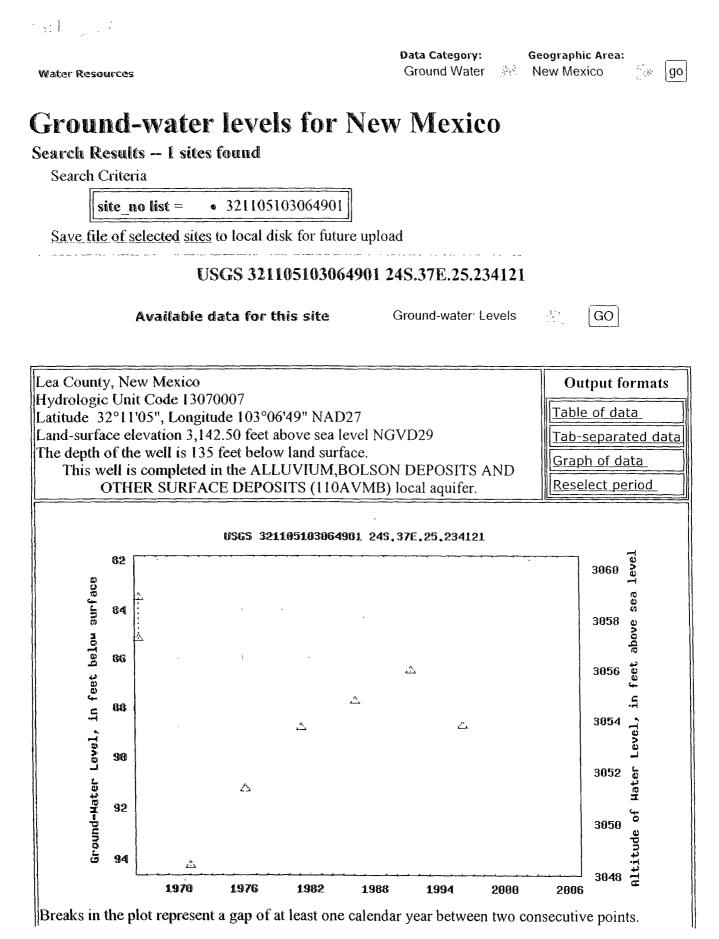
USGS Ground water for New Mexico: Water Levels -- 1 sites Page 1 of 2 27 I Data Category: **Geographic Area:** Ground Water New Mexico go Water Resources **Ground-water levels for New Mexico** Search Results -- 1 sites found Search Criteria • 320823103082901 site no list = Save file of selected sites to local disk for future upload USGS 320823103082901 25S.37E.11.133343 GO Available data for this site Ground-water: Levels Lea County, New Mexico **Output formats** Hydrologic Unit Code 13070007 Table of data Latitude 32°08'23", Longitude 103°08'29" NAD27 Land-surface elevation 3,122.10 feet above sea level NGVD29 Tab-separated data The depth of the well is 192 feet below land surface. Graph of data This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND Reselect period OTHER SURFACE DEPOSITS (110AVMB) local aquifer. USGS 320823103082901 255.37E.11.133343 level 3040 Δ. Ground-Mater Level, in feet below surface 85 ے 3035 90 ے vode 3830 95 Δ feet 3025 ث ۵ Ę. 100 3020 Level 165 ter 3015 110 Hat 3010 ц, 115 Altitude 3865 120 1970 1976 1982 1988 1994 2000 2006

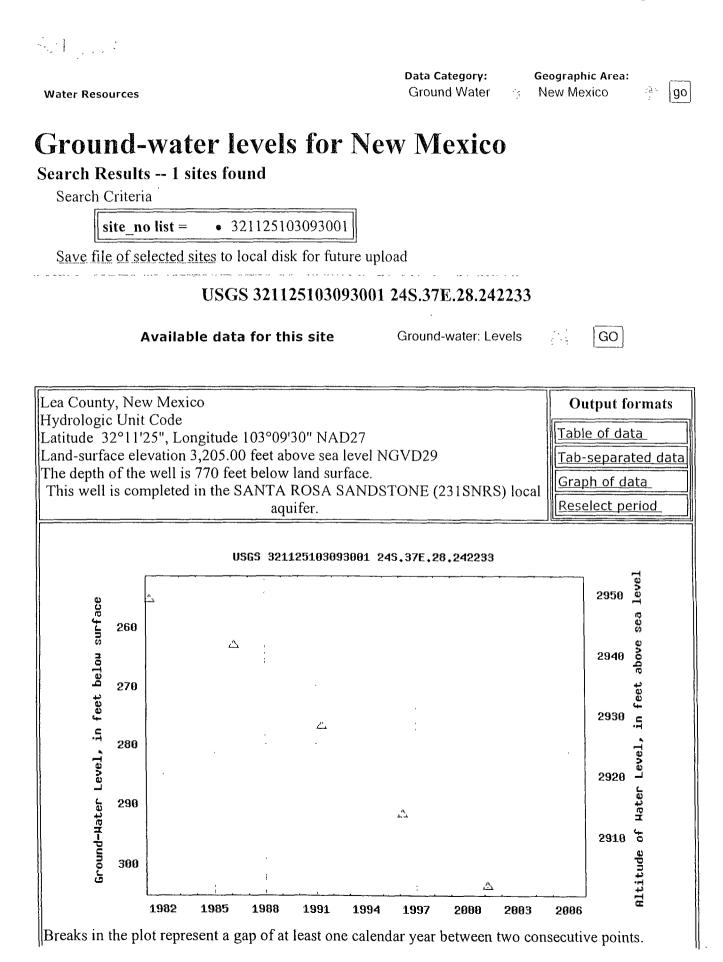






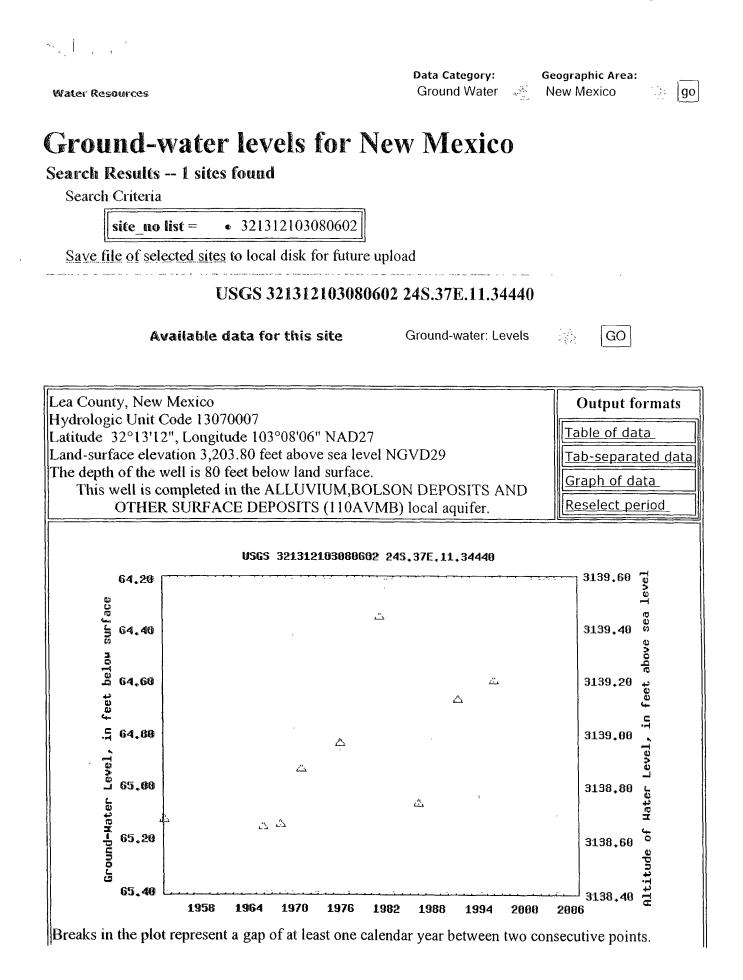
USGS Ground water for New Mexico: Water Levels -- 1 sites



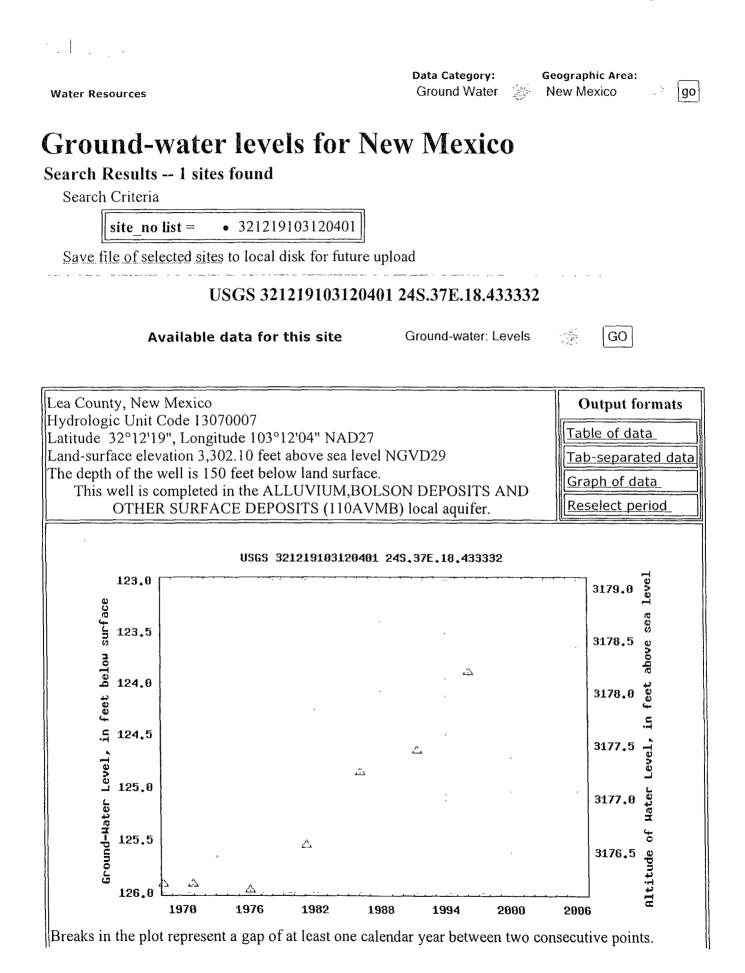


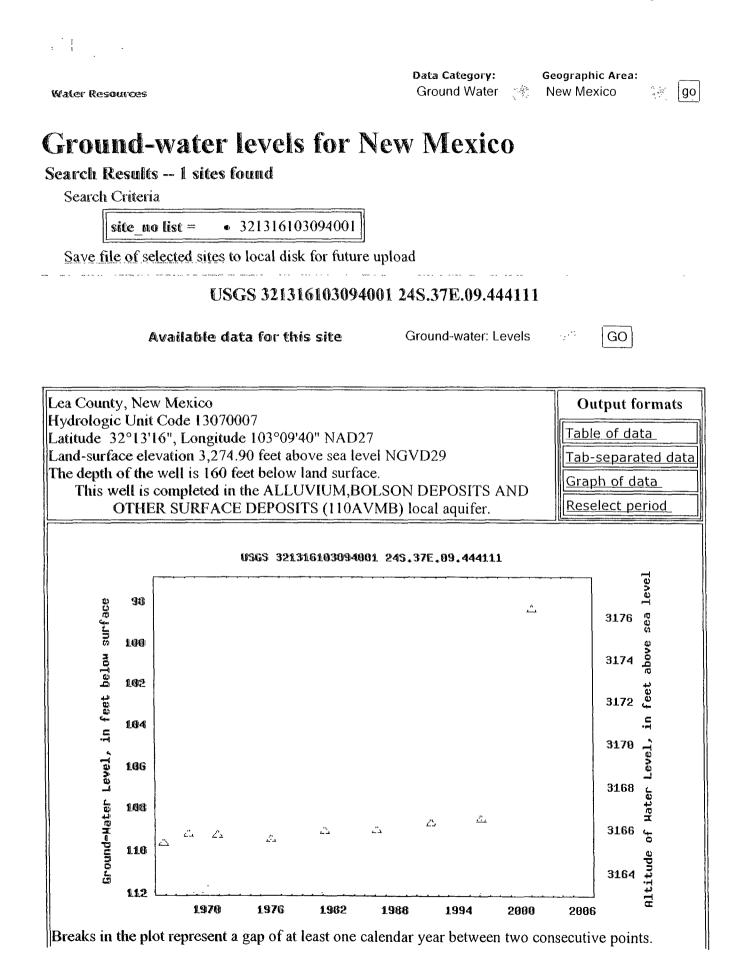
USGS Ground water for New Mexico: Water Levels -- 1 sites Page 1 of 2 *** | . . . Data Category: **Geographic Area:** go Ground Water 1998 **New Mexico** - 2⁰ Water Resources **Ground-water levels for New Mexico** Search Results -- 1 sites found Search Criteria • 321045103092301 site no list = Save file of selected sites to local disk for future upload USGS 321045103092301 24S.37E.27.332111 Available data for this site Ground-water: Levels GO Lea County, New Mexico **Output** formats Hydrologic Unit Code 13070007 Table of data Latitude 32°10'45", Longitude 103°09'23" NAD27 Land-surface elevation 3,194.20 feet above sea level NGVD29 Tab-separated data The depth of the well is 830 feet below land surface. Graph of data This well is completed in the SANTA ROSA SANDSTONE (231SNRS) local Reselect period aquifer. USGS 321045103092301 245.37E.27.332111 2945 250 surface sea 2940 255 above Ground-Mater Level, in feet below <u>د.</u> 2935 260 feet 28 2930 265 in 2925 270 Δ 2920 275 5 Hat 2915 280 ÷ Altitude 285 2910 ے 290 2905 1979 1982 1985 1988 1991 1994 1997 2666 1976 2000 2003

USGS Ground water for New Mexico: Water Levels -- 1 sites Page 1 of 2 **: 1 . . . ***** Data Category: Geographic Area: Ground Water 33 New Mexico go Water Resources 1 **Ground-water levels for New Mexico** Search Results -- 1 sites found Search Criteria • 321235103094701 site no list = Save file of selected sites to local disk for future upload USGS 321235103094701 24S.37E.16.42313 Available data for this site Ground-water: Levels GO Lea County, New Mexico **Output formats** Hydrologic Unit Code 13070007 Table of data Latitude 32°12'35", Longitude 103°09'47" NAD27 Land-surface elevation 3,244.10 feet above sea level NGVD29 Tab-separated data The depth of the well is 150 feet below land surface. Graph of data This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND Reselect period OTHER SURFACE DEPOSITS (110AVMB) local aquifer. USGS 321235103094701 245.37E.16.42313 Leve. surface 78.0 3166.0 sea above feet below 80.0 3164.0 Ŀ, 82.0 3162.0 Ground-Mater Level, Hater Level 84.0 3160.0 \sim of ے ے Altitude 86.0 3158.0 1970 1976 1982 1988 1994 2000 2006

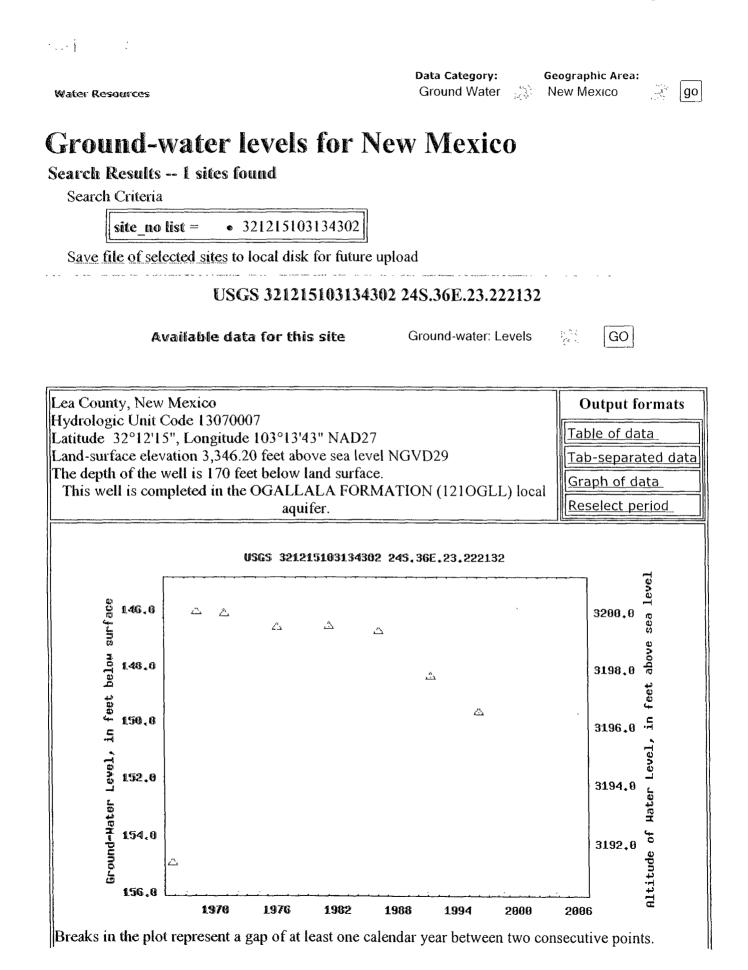


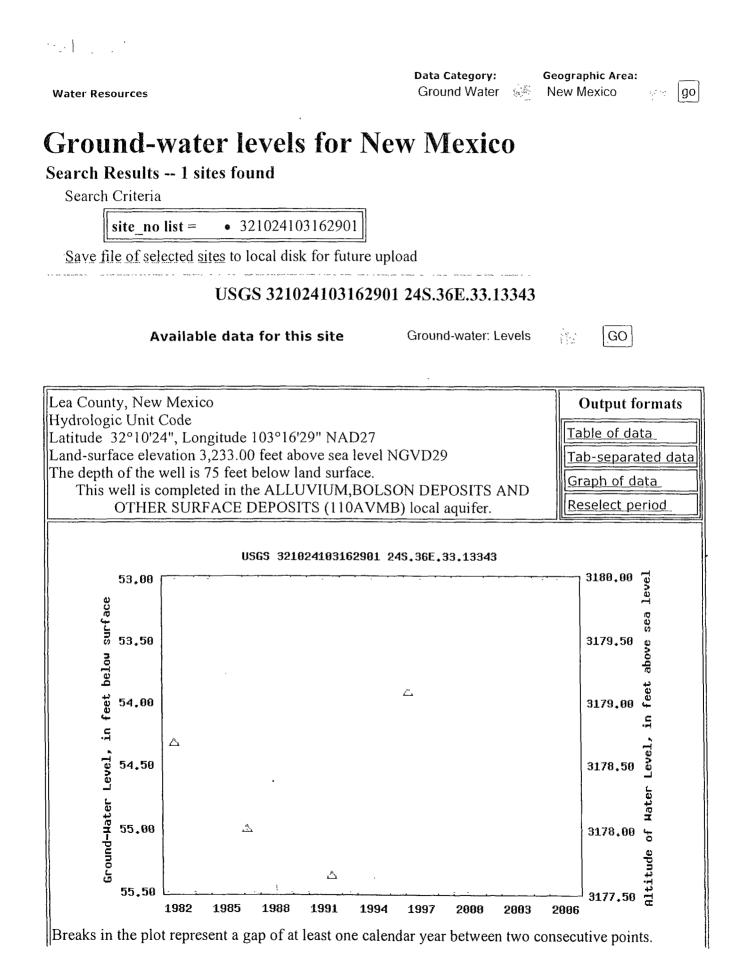
USGS Ground water for New Mexico: Water Levels -- 1 sites





USGS Ground water for New Mexico: Water Levels -- 1 sites Page 1 of 2 Data Category: Geographic Area: Ground Water 34 New Mexico go Water Resources **Ground-water levels for New Mexico** Search Results -- 1 sites found Search Criteria site no list = • 321319103115701 Save file of selected sites to local disk for future upload USGS 321319103115701 24S.37E.07.431244 Available data for this site Ground-water: Levels GO 1.15 Lea County, New Mexico **Output formats** Hydrologic Unit Code 13070007 Table of data Latitude 32°13'19", Longitude 103°11'57" NAD27 Land-surface elevation 3,304.10 feet above sea level NGVD29 Tab-separated data The depth of the well is 152 feet below land surface. Graph of data This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND Reselect period OTHER SURFACE DEPOSITS (110AVMB) local aquifer. USGS 321319103115701 245,37E,07,431244 117,00 3187,00 surface 117,50 3186.50 above belou 118,00 3186.00 feet ے i. 2 118,50 3185.50 Level, 119,00 125 Hater 3185.00 Ground-Hater Δ f Δ 119,50 3184.50 Altitude 120.00 1958 1964 1970 1976 1982 1988 1994 2000 2006 Breaks in the plot represent a gap of at least one calendar year between two consecutive points.





APPENDIX B LABORATORY ANALYSIS

6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E 5002 Basin Streer, Suite A1 6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132

Lubbock Texas 79424 El Paso, Texas 79922 Midland, Texas 79703 E-Mail: lab@traceanalysis.com

800+378+1296 888•588•3443

806 • 794 • 1296 FAX 806 • 794 • 1298 915+585+3443 FAX 915•585•4944 432 • 689 • 6301 FAX 432+689+6313 817 • 201 • 5260

Analytical and Quality Control Report

Ike Tavarez **Highlander Environmental Services** 1910 N. Big Spring Street Midland, TX, 79705

Project Location: Lea County, NM COG/Jalmat Yates Unit Battery Project Name: Project Number: 3111

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
132839	AH-1 (0-1.0')	soil	2007-08-10	00:00	2007-08-10
1328 40	AH-2 (0-1.0')	soil	2007-08-10	00:00	2007-08-10
132841	AH-3 (0-1.0')	soil	2007-08-10	00:00	2007-08-10
132842	AH-4 (0-1.0')	soil	2007-08-10	00:00	2007-08-10
132843	AH-5 (0-1.0')	soil	2007-08-10	00:00	2007-08-10
132844	AH-6 (0-1.0')	soil	2007-08-10	00:00	2007-08-10

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

This report consists of a total of 15 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Auch lan

Dr. Blair Leftwich, Director

Standard Flags

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

Report Date: August 16, 2007

Work Order: 7081040

Sample: 132839 - AH-1 (0-1.0')

Analytical Report

RL BenzeneDilutionBenzene0.402mg/Kg5Coluene0.0607mg/Kg5Chylbenzene2.90mg/Kg5Xylene7.67mg/Kg5SurrogateFlagResultUnitsDilutionAmountRecoveryLimitTrifluorotoluene (TFT)4.78mg/Kg54-Bromofluorobenzene (4-BFB)19.86mg/Kg5Sample:132839 - AH-1 (0-1.0')Analysis:Chloride (Titration)Analytical Method:SM 4500-Cl B 2007-08-14Prep Method:QC Batch:40049Date Analyzed:2007-08-14 2007-08-14Analyzed By:Prep Batch:34661Sample Preparation:Prepared By:ParameterFlagResultUnitsDilutionChloride266mg/Kg25Sample:132839 - AH-1 (0-1.0')Analysis:TPH DROAnalytical Method:Mod. 8015BPrep Method:QC Batch:39974Date Analyzed:2007-08-13Analyzed By:Prep Batch:34601Sample Preparation:2007-08-13Analyzed By:Prep Batch:34601Sample Preparation:Prep Method:Prep Batch:34601Sample Preparation:2007-08-13Prep Method:Prep Batch:34601Sample Preparation:2007-08-13Prepared By:	Analysis:BTEXQC Batch:40066Prep Batch:34675		Analytical M Date Analyz Sample Pre	zed: 2	5 8021B 2007-08-14 2007-08-14		Prep Me Analyze Prepared	d By:	5035
ParameterFlagResultUnitsDilutionBenzene0.402mg/Kg50.Toluene0.0607mg/Kg50.Ethylbenzene2.90mg/Kg50.Xylene7.67mg/Kg50.SurrogateFlagResultUnitsDilutionAmountTrifluorotoluene (TFT)4.78mg/Kg55.00964-Bromofluorobenzene (4-BFB)19.86mg/Kg55.00197Analysis:Chloride (Titration)Analytical Method:SM 4500-Cl BPrep Method:QC Batch:40049Date Analyzed:2007-08-14Analyzed By:Prep Batch:34661Sample Preparation:Prepared By:RLQC Batch:4.01 (0-1.0')Analysis: TPH DRO ChlorideAnalytical Method:Mod. 8015BPrep Method:CG Batch:39974Date Analyzed:2007-08-13Analyzed By:Prep Batch:34601Sample Preparation:255.00RL ParameterFlagRL ParameterFlagResultUnitsDilutionAnalyzed:2007-08-13Analyzed By:Prep Batch:34601Sample Preparation:2007-08-13Prepared By:Prep Batch:34601Sample Preparation:2007-08-13Prepared By:Prep Batch:34601Sample Preparation:2007-08-13Prepared By:Prep Batch:<							•		
Benzene Toluene0.402mg/Kg50.Toluene0.0607mg/Kg50.Ethylbenzene2.90mg/Kg50.Xylene7.67mg/Kg50.SurrogateFlagResultUnitsDilutionAmountRecoveryTrifluorotoluene (TFT)4.78mg/Kg55.009639.6 -4.Bromofluorobenzene (4-BFB)19.86mg/Kg55.0019747.3 - 1Sample: 132839 - AH-1 (0-1.0')Analysis:Chloride (Titration) Sample Preparation:Analytical Method:SM 4500-Cl B 2007-08-14Prep Method:QC Batch:40049 Sample Preparation:Date Analyzed: 2007-08-142007-08-14 Analysed By:Prepared By:ParameterFlagResultUnitsDilutionChloride266mg/Kg255Sample:132839 - AH-1 (0-1.0')Analytical Method:Mod. 8015B Sample Prepared By:ParameterFlagResultUnitsDilutionChloride266mg/Kg25Sample:132839 - AH-1 (0-1.0')Analytical Method:Mod. 8015B Sample Prepared By:Prep Batch:3974 Sample Preparation:2007-08-13 	Parameter Flag				Units		Dilution		\mathbf{RL}
Toluene 0.0607 mg/Kg 5 $0.$ Ethylbenzene 2.90 mg/Kg 5 $0.$ $Xylene$ 7.67 mg/Kg 5 $0.$ SurrogateFlagResultUnitsDilutionAmountRecoveryLimiTrifluorotoluene (TFT) 4.78 mg/Kg 5 5.00 96 $39.6 4.Bromofluorobenzene (4-BFB)$ 1 9.86 mg/Kg 5 5.00 96 $39.6 4.Bromofluorobenzene (4-BFB)$ 1 9.86 mg/Kg 5 5.00 197 $47.3 - 1$ Sample: $132839 - AH-1$ (0-1.0')Analysis:Chloride (Titration)Analytical Method:SM 4500-Cl BPrep Method:QC Batch: 4049 Date Analyzed: $2007-08-14$ Analyzed By:Prep Batch: 34661 Sample Preparation:Prepared By:RLRLUnitsDilutionChloride266 mg/Kg 25 Sample: $132839 - AH-1$ (0-1.0')Analysis:TPH DROAnalytical Method:Mod. 8015BPrep Method:QC Batch: 39974 Date Analyzed: $2007-08-13$ Analyzed By:Prep Batch: 34601 Sample Preparation: $207-08-13$ Analyzed By:Prep Batch: 34601 Sample Preparation: $2007-08-13$ Prepared By:Prep Batch: 34601 Sample Preparation: $2007-08-13$ Prepared By:PrepareterFlagResultUnitsDilution								(0.0100
Ethylbenzene Xylene2.90 mg/Kg 50.Xylene7.67 mg/Kg 50.SurrogateFlagResultUnitsDilutionAmountRecoveryLimitTrifluorotoluene (TFT)4.78 mg/Kg 55.009639.6 -4-Bromofluorobenzene (4-BFB)19.86 mg/Kg 55.0019747.3 - 1Sample:132839 - AH-1 (0-1.0')Analysis:Chloride (Titration) Date Analyzed:2007-08-14 2007-08-14Prep Method: Analyzed By:Prep Batch:34661Sample Preparation:Prepared By:RL ParameterFlagResultUnitsDilutionChloride266 mg/Kg 25Sample:132839 - AH-1 (0-1.0')Analytical Method:Mod. 8015B 2007-08-13Prep Method: Analyzed By:ParameterFlagResultUnitsDilutionChloride266 mg/Kg 25Sample:132839 - AH-1 (0-1.0')Analysis:TPH DRO Sample Preparation:2007-08-13 2007-08-13Prep Method: Prep Method:QC Batch:39974 Sample Preparation:2007-08-13 2007-08-13Prep Method: Prepared By:Prep Batch:34601Sample Preparation:2007-08-13 2007-08-13Prepared By:ParameterFlagResultUnitsDilution									0.0100
Xylene7.67mg/Kg50.SurrogateFlagResultUnitsDilutionAmountRecoveryLimitTrifluorotoluene (TFT)4.78mg/Kg55.009639.6 -4-Bromofluorobenzene (4-BFB)19.86mg/Kg55.0019747.3 - 1Sample: 132839 - AH-1 (0-1.0')Analysis:Chloride (Titration)Analytical Method:SM 4500-Cl BPrep Method:QC Batch:40049Date Analyzed:2007-08-14Analyzed By:Prep Batch:34661Sample Preparation:Prepared By:RLParameterFlagResultUnitsDilutionChloride266mg/Kg25Sample: 132839 - AH-1 (0-1.0')Analysis:TPH DROAnalytical Method:Mod. 8015BPrep Method:QC Batch:39974Date Analyzed:2007-08-13Analyzed By:Prep Batch:34601Sample Preparation:2007-08-13Prep Method:RLSample:132839 - AH-1 (0-1.0')Analytical Method:Mod. 8015BPrep Method:QC Batch:39974Date Analyzed:2007-08-13Analyzed By:Prep Batch:34601Sample Preparation:2007-08-13Prepared By:Prep Batch:34601Sample Preparation:2007-08-13Prepared By:			2.90	1					0.0100
SurrogateFlagResultUnitsDilutionAmountRecoveryLimitTrifluorotoluene (TFT)4.78mg/Kg55.009639.6-4.Bromofluorobenzene (4-BFB)19.86mg/Kg55.0019747.3 - 1Sample: 132839 - AH-1 (0-1.0')Analysis:Chloride (Titration)Analytical Method:SM 4500-Cl BPrep Method:QC Batch:40049Date Analyzed:2007-08-14Analyzed By:Prep Batch:34661Sample Preparation:Prepared By:RLParameterFlagResultUnitsDilutionChloride266mg/Kg25Sample: 132839 - AH-1 (0-1.0')Analysis:TPH DROAnalytical Method:Mod. 8015BPrep Method:QC Batch:39974Date Analyzed:2007-08-13Analyzed By:Prep Batch:34601Sample Preparation:2007-08-13Analyzed By:Prep Batch:34601Sample Preparation:2007-08-13Prep Method:Prep Batch:34601Sample Preparation:2007-08-13Prepared By:RLParameterFlagResultUnitsDilution			7.67					(0.0100
SurrogateFlagResultUnitsDilutionAmountRecoveryLimitTrifluorotoluene (TFT)4.78mg/Kg55.009639.6-4.Bromofluorobenzene (4-BFB)19.86mg/Kg55.0019747.3 - 1Sample: 132839 - AH-1 (0-1.0')Analysis:Chloride (Titration)Analytical Method:SM 4500-Cl BPrep Method:QC Batch:40049Date Analyzed:2007-08-14Analyzed By:Prep Batch:34661Sample Preparation:Prepared By:RLParameterFlagResultUnitsDilutionChloride266mg/Kg25Sample: 132839 - AH-1 (0-1.0')Analysis:TPH DROAnalytical Method:Mod. 8015BPrep Method:QC Batch:39974Date Analyzed:2007-08-13Analyzed By:Prep Batch:34601Sample Preparation:2007-08-13Analyzed By:Prep Batch:34601Sample Preparation:2007-08-13Prep Method:RLSample Preparation:2007-08-13Prep Method:90Prep Batch:34601Sample Preparation:2007-08-13Prepared By:Prep Batch:34601Sample Preparation:2007-08-13Prepared By:Prep Batch:34601Sample Preparation:2007-08-13Prepared By:ParameterFlagResultUnitsDilution						Spike	Percent	Reco	verv
Trifluorotoluene (TFT) 4.78 mg/Kg 5 5.00 96 39.6 - 4-Bromofluorobenzene (4-BFB) 1 9.86 mg/Kg 5 5.00 197 47.3 - 1 Sample: 132839 - AH-1 (0-1.0') Analytical Method: SM 4500-Cl B Prep Method: QC Batch: 40049 Date Analyzed: 2007-08-14 Analyzed By: Prep Batch: 34661 Sample Preparation: Prepared By: RL Inits Dilution Chloride 266 mg/Kg 25 Sample: 132839 - AH-1 (0-1.0') Analytical Method: Mod. 8015B Prep Method: QC Batch: 39974 Date Analyzed: 2007-08-13 Analyzed By: Prep Batch: 34601 Sample Preparation: 2007-08-13 Analyzed By: Prep Batch: 34601 Sample Preparation: 2007-08-13 Analyzed By: Prep Batch: 34601 Sample Preparation: 2007-08-13 Prepared By: RL Parameter Flag Result Units Dilution	Surrogate	Flag	Result	Units	Dilution	•			•
4-Bromofluorobenzene (4-BFB) 1 9.86 mg/Kg 5 5.00 197 47.3 - 1 Sample: 132839 - AH-1 (0-1.0') Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: QC Batch: 40049 Date Analyzed: 2007-08-14 Analyzed By: Prep Batch: 34661 Sample Preparation: Prepared By: RL Result Units Dilution Chloride 266 mg/Kg 25 Sample: 132839 - AH-1 (0-1.0') Analytical Method: Mod. 8015B Prep Method: QC Batch: 39974 Date Analyzed: 2007-08-13 Analyzed By: Prep Batch: 34601 Sample Preparation: 2007-08-13 Analyzed By: Prep Batch: 34601 Sample Preparation: 2007-08-13 Analyzed By: Prep Batch: 34601 Sample Preparation: 2007-08-13 Prepared By: RL Sample Preparation: 2007-08-13 Prepared By: Parameter Flag Result Units Dilution							······································		
Sample: 132839 - AH-1 (0-1.0') Analysis: Chloride (Titration) QC Batch: 40049 Prep Batch: 34661 Barameter Flag RL Result Units Dilution Chloride 266 mg/Kg 25 Sample: 132839 - AH-1 (0-1.0') Analysis: TPH DRO QC Batch: 39974 Prep Batch: 34601 Sample Preparation: Prep Method: R Result Units Dilution Chloride 25 Sample: 132839 - AH-1 (0-1.0') Analytical Method: Malysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: 2007-08-13 Analyzed By: Prep Batch: 34601 Date Analyzed: 2007-08-13 Prep Batch: 34601 Sample Preparation: 2007-08-13 Prepared By: RL Result Units Dilution		1	9.86		5	5.00	197		
ParameterFlagResultUnitsDilutionChloride266mg/Kg25Sample: 132839 - AH-1 (0-1.0')Analysis:TPH DROAnalytical Method:Mod. 8015BPrep Method:QC Batch:39974Date Analyzed:2007-08-13Analyzed By:Prep Batch:34601Sample Preparation:2007-08-13Prepared By:RLParameterFlagResultUnitsDilution	QC Batch: 40049			•		14	-	-	AR AR
Chloride 266 mg/Kg 25 Sample: 132839 - AH-1 (0-1.0') Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: QC Batch: 39974 Date Analyzed: 2007-08-13 Analyzed By: Prep Batch: 34601 Sample Preparation: 2007-08-13 Prepared By: RL Parameter Flag Result Units Dilution									
Sample: 132839 - AH-1 (0-1.0') Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: QC Batch: 39974 Date Analyzed: 2007-08-13 Analyzed By: Prep Batch: 34601 Sample Preparation: 2007-08-13 Prepared By: RL RL Parameter Flag Result Units Dilution									RL
Analysis:TPH DROAnalytical Method:Mod. 8015BPrep Method:QC Batch:39974Date Analyzed:2007-08-13Analyzed By:Prep Batch:34601Sample Preparation:2007-08-13Prepared By:RLParameterFlagResultUnitsDilution	Chloride		266		mg/Kg		25		2.00
QC Batch:39974Date Analyzed:2007-08-13Analyzed By:Prep Batch:34601Sample Preparation:2007-08-13Prepared By:RLParameterFlagResultUnitsDilution	Sample: 132839 - AH-1 (0-1.	0')							
Prep Batch: 34601 Sample Preparation: 2007-08-13 Prepared By: RL Parameter Flag Result Units Dilution	Analysis: TPH DRO		Analytica	l Method:	Mod. 8015B		Prep 1	Method:	N/A
RL Parameter Flag Result Units Dilution				•			•	•	
Parameter Flag Result Units Dilution	Prep Batch: 34601		Sample P	reparation:	2007-08-13		Prepa	red By:	
1020			Result				Dilution		RL

DRO			1030	mg/	mg/Kg		50.0	
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits	
n-Triacontane		152	mg/Kg	1	150	101	39.1 - 137.7	

Sample: 132839 - AH-1 (0-1.0')

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method: S 5035
QC Batch:	40072	Date Analyzed:	2007-08-14	Analyzed By:
Prep Batch:	34675	Sample Preparation:	2007-08-14	Prepared By:

¹High surrogate recovery due to peak interference.

Parameter Flag		RL Result		Units		Dilution	\mathbf{RL}
GRO		379		mg/Kg	······	5	
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		2.85	mg/Kg	5	5.00	57	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)	2	23.2	mg/Kg	5	5.00	464	50.8 - 131.6

Sample: 132840 - AH-2 (0-1.0')

Analysis: BTEX QC Batch: 40066 Prep Batch: 34675		Analytical I Date Analy Sample Pre	zed:	S 8021B 2007-08-14 2007-08-14	Prep Method: S 56 Analyzed By: Prepared By:		l By:
		RI	- -				
Parameter Flag		Resul	t	Units	I	Dilution	\mathbf{RL}
Benzene		< 0.050	0	mg/Kg		5	0.0100
Toluene		< 0.0500	0	mg/Kg		5	0.0100
Ethylbenzene		0.93	5	mg/Kg		5	0.0100
Xylene		0.69	5	mg/Kg		5	0.0100
					Spike	Percent	Recovery
Surrogate	Flag	\mathbf{Result}	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		3.77	mg/Kg	5	5.00	75	39.6 - 116
4-Bromofluorobenzene (4-BFB)	3	8.69	mg/Kg	5	5.00	174	47.3 - 144.2

Sample: 132840 - AH-2 (0-1.0')

Analysis: QC Batch:	Chloride (Titration) 40049	Analytical M Date Analyz		Prep Method: Analyzed By:	,
Prep Batch:	34661	Sample Prep		Prepared By:	
		RL			
Parameter	\mathbf{Flag}	Result	\mathbf{Units}	Dilution	\mathbf{RL}
Chloride		112	mg/Kg	25	2.00

Sample: 132840 - AH-2 (0-1.0')

Analysis: QC Batch: Prep Batch:	TPH DRO 39974 34601	Analytical Method: Date Analyzed: Sample Preparation:	Mod. 8015B 2007-08-13 2007-08-13	Prep Method: Analyzed By: Prepared By:	,
		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
DRO		704	mg/Kg	1	50.0

 $^2{\rm High}$ surrogate recovery due to peak interference. $^3{\rm High}$ surrogate recovery due to peak interference.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		175	mg/Kg	1	150	117	39.1 - 137.7

Sample: 132840 - AH-2 (0-1.0')

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method: S 5035
QC Batch:	40072	Date Analyzed:	2007-08-14	Analyzed By:
Prep Batch:	34675	Sample Preparation:	2007-08-14	Prepared By:
		\mathbf{RL}		

Parameter Flag		Result		Units		Dilution	\mathbf{RL}
GRO		304		mg/Kg		5	1.00
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		3.31	mg/Kg	5	5.00	66	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)	4	22.1	mg/Kg	5	5.00	442	50.8 - 131.6

Sample: 132841 - AH-3 (0-1.0')

Analysis:BTEXQC Batch:40066Prep Batch:34675		Analytical I Date Analy Sample Pre	zed:	S 8021B 2007-08-14 2007-08-14	8-14 Analyzed By:		
		RL	ı				
Parameter Flag		Result		Units]	Dilution	\mathbf{RL}
Benzene	·····	0.0848	}	mg/Kg		2 .	0.0100
Toluene		0.116	;	mg/Kg		2	0.0100
Ethylbenzene		0.869)	mg/Kg		2	0.0100
Xylene		2.33	l	mg/Kg		2	0.0100
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		2.00	mg/Kg	2	2.00	100	39.6 - 116
4-Bromofluorobenzene (4-BFB)	5	3.51	mg/Kg	2	2.00	176	47.3 - 144.2

Sample: 132841 - AH-3 (0-1.0')

Analysis: QC Batch: Prep Batch:	Chloride (Titration) 40049 34661	Analytical Me Date Analyze Sample Prepa	d: 2007-08-14	Prep Method: Analyzed By: Prepared By:	AR
		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		389	mg/Kg	25	2.00

⁴High surrogate recovery due to peak interference. ⁵High surrogate recovery due to peak interference.

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Sample: 132841 - AH-3 (0-1.0')

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method: N/A
QC Batch:	39974	Date Analyzed:	2007-08-13	Analyzed By:
Prep Batch:	34601	Sample Preparation:	2007-08-13	Prepared By:

Parameter	Fla	ıg	f RL Result	Uı	nits	Dilution	RL
DRO			1590	mg/	Kg	1	50.0
					Spike	Percent	Recovery
Surrogate	Flag	\mathbf{Result}	Units	Dilution	Amount	Recovery	Limits
n-Triacontane	6	307	mg/Kg	1	150	205	39.1 - 137.7

Sample: 132841 - AH-3 (0-1.0')

Analysis: QC Batch: Prep Batch:	TPH GRO 40072 34675		Date Ana	l Method: lyzed: reparation:	S 8015B 2007-08-14 2007-08-14	Prep Method: S 5035 Analyzed By: Prepared By:		
			RL					DI
Parameter	Flag		\mathbf{Result}		Units		Dilution	RL
GRO			119		mg/Kg		2	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolue	ene (TFT)		1.16	mg/Kg	2	2.00	58	50.2 - 89.3
	obenzene (4-BFB)	7	7.92	mg/Kg	2	2.00	396	50.8 - 131.6

Sample: 132842 - AH-4 (0-1.0')

Analysis:BTEXQC Batch:40066Prep Batch:34675			Analytical I Date Analy Sample Pre	zed:	S 8021B 2007-08-14 2007-08-14	Prep Method: S 5 Analyzed By: Prepared By:		
			\mathbf{RL}					
Parameter	Flag		Result		Units]	Dilution	\mathbf{RL}
Benzene			0.618		mg/Kg		10	0.0100
Toluene			0.504		mg/Kg		10	0.0100
Ethylbenzene			3.63		mg/Kg		10	0.0100
Xylene			11.5		mg/Kg	,	10	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TF)	Г)		7.38	mg/Kg	10	10.0	74	39.6 - 116
4-Bromofluorobenzen	e (4-BFB)	8	14.6	mg/Kg	10	10.0	146	47.3 - 144.2

⁶High surrogate recovery due to peak interference. ⁷High surrogate recovery due to peak interference. ⁸High surrogate recovery due to peak interference.

Sample: 132842 - AH-4 (0-1.0')

Analysis: QC Batch: Prep Batch:	Chloride (Titration) 40049 34661	Analytical Method Date Analyzed: Sample Preparation	2007-08-14	Prep Method: Analyzed By: Prepared By:	AR
Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		134	mg/Kg	25	2.00^{-}

Sample: 132842 - AH-4 (0-1.0')

Analysis: QC Batch: Prep Batch:	TPH DRO 39974 34601		Analytical M Date Analyz Sample Prep	ed:	Mod. 8015B 2007-08-13 2007-08-13	Anal	Method: N/A yzed By: ared By:
Parameter	Fla	ıg	RL Result		Units	Dilution	\mathbf{RL}
DRO			12200		mg/Kg	10	50.0
Surrogate	Flag	Result	Units	Dilutio	Spike on Amount	Percent Recovery	Recovery Limits
n-Triacontan	e 9	1860	mg/Kg	10	150	1240	39.1 - 137.7

Sample: 132842 - AH-4 (0-1.0')

Analysis: QC Batch: Prep Batch:	TPH GRO 40072 34675		Date Ana	l Method: lyzed: reparation:	S 8015B 2007-08-14 2007-08-14		Prep Me Analyze Preparec	d By:
Parameter	Flag		RL Result		Units		Dilution	RL
GRO	· · · · · · · · · · · · · · · · · · ·		375		mg/Kg		10	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu 4-Bromofluor	ene (TFT) robenzene (4-BFB)	10	5.73 20.7	mg/Kg mg/Kg	10 10	$\begin{array}{c} 10.0 \\ 10.0 \end{array}$	57 207	50.2 - 89.3 50.8 - 131.6

Sample: 132843 - AH-5 (0-1.0')

Analysis: QC Batch: Prep Batch:	BTEX 40066 34675		Analytical Method: Date Analyzed: Sample Preparation:	S 8021B 2007-08-14 2007-08-14	Prep Method: Analyzed By: Prepared By:	S 5035
			\mathbf{RL}			
Parameter		Flag	Result	Units	Dilution	\mathbf{RL}
Benzene			< 0.0100	mg/Kg	1	0.0100
Toluene			< 0.0100	mg/Kg	1	0.0100
Ethylbenzene) rate recovers due t		<0.0100	mg/Kg	1	0.0100

¹⁰High surrogate recovery due to peak interference.

continued ...

sample 132843 continued ...

			RI	L				
Parameter I	Flag		Resul	t	Units]	Dilution	\mathbf{RL}
Xylene			<0.0100		mg/Kg	1		0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.07	mg/Kg	1	1.00	107	39.6 - 116
4-Bromofluorobenzene (4-BF	B)		1.29	mg/Kg	1	1.00	129	47.3 - 144.2

Sample: 132843 - AH-5 (0-1.0')

Analysis:	Chloride (Titration)	Analytical Metho	od: SM 4500-Cl B	Prep Method	: N/A
QC Batch:	40049	Date Analyzed:	2007-08-14	Analyzed By	: AR
Prep Batch:	34661	Sample Preparati	ion:	Prepared By	AR
		\mathbf{RL}			
Parameter	\mathbf{Flag}	Result	Units	Dilution	\mathbf{RL}
Chloride		315	mg/Kg	25	2.00

Sample: 132843 - AH-5 (0-1.0')

Analysis: QC Batch: Prep Batch:	TPH DRO 39974 34601		Analytical M Date Analyz Sample Prep	ed: 200	d. 8015B 97-08-13 97-08-13	Anal	Method: N/A yzed By: ared By:
Parameter	Fla	σ	RL Result		Units	Dilution	RL
DRO		6	204	п	ig/Kg	1	50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontan	e	194	mg/Kg	1	150	129	39.1 - 137.7

Sample: 132843 - AH-5 (0-1.0')

Analysis: QC Batch: Prep Batch:	TPH GRO 40072 34675		Date Ana	l Method: lyzed: reparation:	S 8015B 2007-08-14 2007-08-14		Prep Me Analyze Prepare	d By:
			\mathbf{RL}					
Parameter	Flag		\mathbf{Result}		\mathbf{Units}		Dilution	\mathbf{RL}
GRO	·····		8.32		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)		0.857	mg/Kg	1	1.00	86	50.2 - 89.3
4-Bromofluor	cobenzene (4-BFB)		1.01	mg/Kg	1	1.00	101	50.8 - 131.6

Sample: 132844 - AH-6 (0-1.0')

Analysis: QC Batch: Prep Batch:	BTEX 40066 34675		Analytical I Date Analy Sample Pre	zed:	S 8021B 2007-08-14 2007-08-14		Prep Me Analyze Prepare	d By:
			RI	J				
Parameter	Flag	S	Resul	t	Units		Dilution	\mathbf{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	\mathbf{Result}	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TFT)		1.08	mg/Kg	1	1.00	108	39.6 - 116
4-Bromofluor	obenzene (4-BFB)		1.23	mg/Kg	1	1.00	123	47.3 - 144.2

Sample: 132844 - AH-6 (0-1.0')

Analysis: QC Batch: Prep Batch:	Chloride (Titration) 40049 34661	Analytical Me Date Analyze Sample Prepa	d: 2007-08-14	Prep Method: Analyzed By: Prepared By:	\mathbf{AR}
Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1090	mg/Kg	25	2.00

Sample: 132844 - AH-6 (0-1.0')

Analysis: QC Batch: Prep Batch:	TPH DRO 39974 34601		Analytical M Date Analyz Sample Prep	ed:	Mod. 8 2007-08 2007-08	3-13	Anal	Method: N/A yzed By: ared By:
Parameter	F	lag	RL Result		Uni	ts	Dilution	RL
DRO			178		mg/K	g	1	50.0
Surrogate	Flag	Result	Units	Diluti	on	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontan	e	203	mg/Kg	1		150	135	39.1 - 137.7

Sample: 132844 - AH-6 (0-1.0')

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method: S 5035
QC Batch:	40072	Date Analyzed:	2007-08-14	Analyzed By:
Prep Batch:	34675	Sample Preparation:	2007-08-14	Prepared By:

continued ...

sample 132844 continued

Parameter	Flag	······	RL Result		Units		Dilution	RL
-			RL				54.4	DI
Parameter	Flag		\mathbf{Result}		Units		Dilution	RL
GRO			2.69		mg/Kg		1	1.00
Currorata		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Surrogate		Flag			Dilution			
Trifluorotoluene (TI	$f^{*}\Gamma$)		0.838	mg/Kg	1	1.00	84	50.2 - 89.3
4-Bromofluorobenze	ne (4-BFB)		0.992	mg/Kg	1	1.00	99	50.8 - 131.6

Method Blank (1) QC Batch: 39974

QC Batch: Prep Batch:	39974 34601	Date Analyzed: 2007-08-13 QC Preparation: 2007-08-13					Analyzed By: Prepared By:
				MDL			
Parameter		Flag		Result		Units	\mathbf{RL}
DRO	····			<14.6		mg/Kg	50
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		116	mg/Kg	1	150	77	33.3 - 157.4

Method Blank (1) QC Batch: 40049

QC Batch: Prep Batch:	40049 34661		Date Analyzed: QC Preparation:			Analyzed By: Prepared By:	
-			М	DL		A U	
Parameter		Flag	Res	ult	Units		\mathbf{RL}
Chloride			<0.	500	mg/Kg		2

Method Blank (1) QC Batch: 40066

QC Batch: Prep Batch:	$\begin{array}{c} 40066\\ 34675 \end{array}$		•/	007-08-14 007-08-14	Analyzed By: Prepared By:
			MDI		
Parameter		Flag	Resul	t Units	\mathbf{RL}
Benzene			< 0.0011	0 mg/Kg	0.01
Toluene			< 0.0015) mg/Kg	0.01
Ethylbenzene			< 0.0016	0 mg/Kg	0.01
Xylene	·····		< 0.0041		0.01

Surrogate	Flag	Result	Units	Dil	ution	Spike Amount	Percent Recovery		covery imits
Trifluorotoluene (TFT)	0	0.980			1	1.00			2 - 121.3
4-Bromofluorobenzene (4-B	FB)	0.912			1	1.00	91	53.1	- 111.6
		_					-		
Method Blank (1)	QC Batch: 400	072							
QC Batch: 40072 Prep Batch: 34675			Analyzed: Preparation:	2007-0 2007-0				Analyzec Prepared	
			MI						
Parameter	Flag		Resu			Uni			RL
GRO			<0.7	39		mg/l	Kg		1
Surrogate	Flag	Result	Units	Dil	ution	Spike Amount	Percent Recovery		covery imits
Trifluorotoluene (TFT)		0.883	mg/Kg		1	1.00	88		8 - 103
4-Bromofluorobenzene (4-B	FB)	0.629			1	1.00	63	55.4	- 111.8
•	ke (LCS-1)		Analyzed:	2007-0				Analyzed	
Prep Batch: 34601		QC I	Preparation:	2007-0	98-13 Spike	Matri		Prepared	l By: Rec.
Prep Batch: 34601 Param		QC I LCS Result	Preparation: Units	2007-0 Dil.	98-13 Spike Amount	Resul	t Rec.	Preparec	l By: Rec. Limit
Prep Batch: 34601 Param DRO		QC I LCS Result 182	Preparation: Units mg/Kg	2007-0 Dil. 1	08-13 Spike Amount 250	Resul <14.0	t Rec. 5 73	Preparec	l By: Rec.
Prep Batch: 34601 Param DRO		QC I LCS Result 182	Preparation: Units mg/Kg	2007-0 Dil. 1	08-13 Spike Amount 250	Resul <14.0	t Rec. 5 73	Preparec	l By: Rec. Limit
Prep Batch: 34601 Param DRO		QC I LCS Result 182 sult. RPD is	Preparation: Units mg/Kg	2007-0 Dil. 1 he spike	08-13 Spike Amount 250	Resul <14.0	t Rec. 5 73	Preparec	l By: Rec. Limit
Prep Batch: 34601 Param DRO Percent recovery is based or	n the spike re	QC I LCS Result 182 sult. RPD is D	Preparation: Units mg/Kg 5 based on th	2007-0 Dil. 1	98-13 Spike Amount 250 and spike	Resul <14.0	t Rec. 5 73 esult.	Preparec	l By: Rec. Limit - 140.9
Prep Batch: 34601 Param DRO Percent recovery is based on Param	n the spike rea	QC I LCS Result 182 sult. RPD is D lt Units	Preparation: Units mg/Kg s based on th Dil. A	2007-0 Dil. 1 he spike Spike	98-13 Spike <u>Amount</u> 250 and spike Matrix	Resul <14.0 duplicate r Rec.	t Rec. 5 73 esult. Rec.	Prepared	By: Rec. Limit - 140.9 RPD
Prep Batch: 34601 Param DRO Percent recovery is based of Param DRO	n the spike re LCS Resu 162	QC I LCS Result 182 sult. RPD is D lt Units mg/Kg	Preparation: Units mg/Kg s based on the Dil. A g 1	2007-0 Dil. 1 he spike Spike Amount 250	Spike Amount 250 and spike Matrix Result <14.6	Result <14.0	t Rec. 5 73 esult. Rec. Limit 18.1 - 140.9	Prepared 1 48.1 RPD	l By: Rec. - 140.9 RPD Limit
Prep Batch: 34601 Param DRO Percent recovery is based on Param DRO Percent recovery is based on	n the spike res LCS Resu 162 n the spike res	QC I LCS Result 182 Sult. RPD is D lt Units mg/Kg sult. RPD is	Preparation: Units mg/Kg s based on the Dil. A g 1	2007-0 Dil. 1 he spike Spike Amount 250	Spike Amount 250 and spike Matrix Result <14.6 and spike	Resul <14.0 duplicate r Rec. 65 4 duplicate r	t Rec. 5 73 esult. Rec. Limit 18.1 - 140.9 esult.	Prepared J 48.1 RPD 12	l By: Rec. - 140.9 RPD Limit 20
Prep Batch: 34601 Param DRO Percent recovery is based of Param DRO Percent recovery is based of	n the spike res LCS Resu 162 n the spike res LCS L0	QC I LCS Result 182 sult. RPD is D lt Units mg/Kg sult. RPD is CSD	Preparation: Units mg/Kg based on the Dil. A g 1 based on the based on the	2007-0 Dil. 1 he spike Spike Amount 250 he spike	98-13 Spike Amount 250 and spike Matrix Result <14.6 and spike Spike	Resul <14.0 duplicate r Rec. 65 4 duplicate r LCS	t Rec. 5 73 esult. Rec. Limit 18.1 - 140.9 esult. LCSD	Prepared J 48.1 RPD 12	l By: Rec. Limit - 140.9 Limit 20 Rec.
Prep Batch: 34601	n the spike re LCS Resu 162	QC I LCS Result 182 sult. RPD is D lt Units mg/Kg	Preparation: Units mg/Kg s based on the Dil. A g 1	2007-0 Dil. 1 he spike Spike Amount 250	Spike Amount 250 and spike Matrix Result <14.6	Result <14.0	t Rec. 5 73 esult. Rec. Limit 18.1 - 140.9	Prepared 1 48.1 RPD	l By: Rec. Limit - 140. RPI Limi
Prep Batch: 34601 Param DRO Percent recovery is based of Param DRO Percent recovery is based of Surrogate	n the spike res LCS Resu 162 n the spike res LCS LG Result Ro	QC I LCS Result 182 Sult. RPD is D It Units mg/Kg Sult. RPD is CSD Sult U	Preparation: Units mg/Kg based on the Dil. A g 1 based on the based on the	2007-0 Dil. 1 he spike Spike Amount 250	Spike Amount 250 and spike Matrix Result <14.6 and spike	Resul <14.0 duplicate r Rec. 65 4 duplicate r	t Rec. 5 73 esult. Rec. Limit 18.1 - 140.9 esult.	Prepared J 48.1 RPD 12	l By: Rec. - 140.9 RPD Limit 20 Rec. .imit
Prep Batch: 34601 Param DRO Percent recovery is based or Param DRO Percent recovery is based or Surrogate n-Triacontane Laboratory Control Spil	n the spike res LCS Resu 162 n the spike res LCS L4 Result Ra 85.2 8	QC I LCS Result 182 Sult. RPD is D lt Units mg/Kg Sult. RPD is CSD esult U 8.4 m	Preparation: Units mg/Kg based on the Dil. A g 1 based on the based on the Units Units Units	2007-0 Dil. 1 he spike Spike Amount 250 he spike	98-13 Spike Amount 250 and spike Matrix Result <14.6 and spike Spike Amount	Resul <14.0 duplicate r Rec. 65 4 duplicate r LCS Rec.	t Rec. 5 73 esult. Rec. Limit 18.1 - 140.9 esult. LCSD Rec.	Prepared J 48.1 RPD 12	l By: Rec. - 140.9 RPD Limit 20 Rec. .imit
Prep Batch: 34601 Param DRO Percent recovery is based or Param DRO Percent recovery is based or Surrogate In-Triacontane Laboratory Control Spil QC Batch: 40049	n the spike res LCS Resu 162 n the spike res LCS L4 Result Ra 85.2 8	QC I LCS Result 182 Sult. RPD is c mg/Kg Sult. RPD is CSD esult U 8.4 m	Preparation: Units mg/Kg based on th Dil. A g 1 based on th Units Units units units mg/Kg	2007-0 Dil. 1 he spike Amount 250 he spike Dil. 1	Spike Amount 250 and spike Matrix Result <14.6 and spike Spike Amount 150	Resul <14.0 duplicate r Rec. 65 4 duplicate r LCS Rec.	t Rec. 5 73 esult. Rec. Limit 18.1 - 140.9 esult. LCSD Rec. 59	Prepared J 48.1 RPD 12 I 42.1 alyzed By	l By: Rec. 140.9 RPD Limit 20 Rec. .imit - 138.9
Prep Batch: 34601 Param DRO Percent recovery is based or Param DRO Percent recovery is based or Surrogate In-Triacontane Laboratory Control Spil	n the spike res LCS Resu 162 n the spike res LCS L4 Result Ra 85.2 8	QC I LCS Result 182 Sult. RPD is c mg/Kg Sult. RPD is CSD esult U 8.4 m	Preparation: Units mg/Kg based on th Dil. A g 1 based on th Units Units units units mg/Kg	2007-0 Dil. 1 he spike Amount 250 he spike Dil. 1	Spike Amount 250 and spike Matrix Result <14.6 and spike Spike Amount 150	Resul <14.0 duplicate r Rec. 65 4 duplicate r LCS Rec.	t Rec. 5 73 esult. Rec. Limit 18.1 - 140.9 esult. LCSD Rec. 59	Prepared J 48.1 RPD 12 I 42.1	l By: Rec. 140.9 RPD Limit 20 Rec. .imit - 138.9
Prep Batch: 34601 Param DRO Percent recovery is based or Param DRO Percent recovery is based or Surrogate In-Triacontane Laboratory Control Spil QC Batch: 40049	n the spike res LCS Resu 162 n the spike res LCS L4 Result Ra 85.2 8	QC I LCS Result 182 Sult. RPD is c mg/Kg Sult. RPD is CSD esult U 8.4 m	Preparation: Units mg/Kg based on th Dil. A g 1 based on th Units Units units units mg/Kg	2007-0 Dil. 1 he spike Amount 250 he spike Dil. 1	Spike Amount 250 and spike Matrix Result <14.6 and spike Spike Amount 150	Resul <pre></pre>	t Rec. 5 73 esult. Rec. Limit 18.1 - 140.9 esult. LCSD Rec. 59	Prepared J 48.1 RPD 12 I 42.1 alyzed By	By: Rec. imit - 140.9 RPD Limit 20 Rec. imit - 138.9
Prep Batch: 34601 Param DRO Percent recovery is based or Param DRO Percent recovery is based or Surrogate In-Triacontane Laboratory Control Spil QC Batch: 40049	n the spike res LCS Resu 162 n the spike res LCS L4 Result Ra 85.2 8	QC I LCS Result 182 sult. RPD is D lt Units mg/Kg sult. RPD is CSD esult U 8.4 m Date A QC Pr	Preparation: Units mg/Kg based on th Dil. A g 1 based on th Units Units units units mg/Kg	2007-0 Dil. 1 he spike Amount 250 he spike Dil. 1	Spike Amount 250 and spike Matrix Result <14.6 and spike Spike Amount 150	Resul <pre></pre>	t Rec. 5 73 esult. Rec. Limit 18.1 - 140.9 esult. LCSD Rec. 59 Ana Pre trix	Prepared J 48.1 RPD 12 I 42.1 alyzed By	Rec. Limit - 140.9 RPD Limit 20 Rec. Limit - 138.9 7: AR 7: AR 7: AR

	LCSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{Result}	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	95.7	mg/Kg	1	100	< 0.500	96	85 - 115	1	20

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

Laboratory Control Spike (LCS-1)

QC Batch:	40066	Date Analyzed:	2007-08-14	Analyzed By:
Prep Batch:	34675	QC Preparation:	2007-08-14	Prepared By:

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	\mathbf{Limit}
Benzene	1.09	mg/Kg	1	1.00	< 0.00110	109	71.2 - 119
Toluene	0.948	$\mathrm{mg/Kg}$	1	1.00	< 0.00150	95	76.3 - 116.5
Ethylbenzene	0.935	mg/Kg	1	1.00	< 0.00160	94	77.6 - 114
Xylene	2.79	mg/Kg	1	3.00	< 0.00410	93	78.8 - 113.9

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	Result	Rec.	Limit	RPD	Limit
Benzene	1.04	mg/Kg	1	1.00	< 0.00110	104	71.2 - 119	5	20
Toluene	0.922	mg/Kg	1	1.00	< 0.00150	92	76.3 - 116.5	3	20
Ethylbenzene	0.905	mg/Kg	1	1.00	< 0.00160	90	77.6 - 114	3	20
Xylene	2.71	mg/Kg	1	3.00	< 0.00410	90	78.8 - 113.9	3	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	\mathbf{Result}	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	0.888	0.928	mg/Kg	1	1.00	89	93	56.1 - 107.8
4-Bromofluorobenzene (4-BFB)	1.09	1.10	mg/Kg	1	1.00	109	110	56.2 - 118.8

Laboratory Control Spike (LCS-1)

QC Batch:	40072	Date Analyzed:	2007-08-14	Analyzed By:
Prep Batch:	34675	QC Preparation:	2007-08-14	Prepared By:

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	\mathbf{Result}	Rec.	\mathbf{Limit}
GRO	6.61	mg/Kg	1	10.0	< 0.739	66	56 - 105.2

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	\mathbf{Result}	Rec.	\mathbf{Limit}	RPD	Limit
GRO	7.58	mg/Kg	1	10.0	<0.739	76	56 - 105.2	14	20

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

Surrogate	LCS Result	$\begin{array}{c} \mathrm{LCSD} \\ \mathrm{Result} \end{array}$	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	$\operatorname{Rec.}$
Trifluorotoluene (TFT)	1.06	0.957	mg/Kg	1	1.00	106	96	61.1 - 148.1
4-Bromofluorobenzene (4-BFB)	0.786	0.844	mg/Kg	1	1.00	79	84	67.2 - 119.2

Spiked Sample: 132843 Matrix Spike (MS-1) QC Batch: 39974 Date Analyzed: 2007-08-13 Analyzed By: Prep Batch: 34601 **QC** Preparation: 2007-08-13 Prepared By: MS Spike Matrix Rec. Param Result Units Dil. Amount Result Rec. Limit 1020 DRO mg/Kg 250204326 35.6 - 173.6 1 Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result. MSD RPD Spike Matrix Rec. Units Dil. RPD Param Result Amount Result Rec. Limit Limit DRO 121070 250 204 346 35.6 - 173.6 20 mg/Kg 1 5 Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result. MS MSD Spike MS MSD Rec. Dil. Surrogate Result Result Units Amount Rec. Rec. Limit 13 14 n-Triacontane 300 296 150 200 197 33 - 156.2mg/Kg 1 Matrix Spike (MS-1) Spiked Sample: 132844 QC Batch: 40049 Date Analyzed: 2007-08-14 Analyzed By: AR Prep Batch: 34661 QC Preparation: 2007-08-14 Prepared By: AR MS Spike Matrix Rec. Param Result Units Dil. Amount Result Rec. Limit Chloride 3480 mg/Kg 252500 1090 96 85 - 115 Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result. MSD Spike Rec. RPD Matrix Param Result Units Dil. Amount Result Rec. Limit RPD Limit Chloride 3510 mg/Kg 252500 1090 97 85 - 115 1 20 Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result. Matrix Spike (MS-1) Spiked Sample: **OC** Batch: 40066 Date Analyzed: 2007-08-14 Analyzed By: Prep Batch: 34675 QC Preparation: 2007-08-14 Prepared By: MS Spike Matrix Rec. Param Result Units Dil. Amount Result Rec. Limit Benzene 1.19 mg/Kg 1 1.00 < 0.00110119 65.7 - 119.1

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

1.36

1.19

3.56

¹¹Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

mg/Kg

mg/Kg

mg/Kg

1

1

1

1.00

1.00

3.00

0.1775

0.0103

0.0485

118

118

117

47.7 - 153.8

73.5 - 126.3

73.6 - 125.9

¹²Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

¹³High surrogate recovery due to peak interference.

Toluene

Xylene

Ethylbenzene

¹⁴High surrogate recovery due to peak interference.

		MSD			Spike	Matrix		Rec.		RPD
Param		Result	Units	Dil.	Amount	\mathbf{Result}	Rec.	Limit	RPD	Limit
Benzene	15	1.39	mg/Kg	1	1.00	< 0.00110	139	65.7 - 119.1	16	20
Toluene		1.44	mg/Kg	1	1.00	0.1775	126	47.7 - 153.8	6	20
Ethylbenzene	16	1.30	mg/Kg	1	1.00	0.0103	129	73.5 - 126.3	9	20
Xylene	17	3.94	mg/Kg	1	3.00	0.0485	130	73.6 - 125.9	10	20

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	\mathbf{Result}	Units	Dil.	Amount	Rec.	Rec.	\mathbf{Limit}
Trifluorotoluene (TFT)	0.901	0.960	mg/Kg	1	1	90	96	51 - 109.6
4-Bromofluorobenzene (4-BFB)	1.11	1.13	mg/Kg	1	1	111	113	60.3 - 124.3

Matrix Spike (MS-1) Spiked Sample: 132843

QC Batch:	40072	Date Analyzed:	2007-08-14	Analyzed By:
Prep Batch:	34675	QC Preparation:	2007-08-14	Prepared By:

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	12.0	mg/Kg	1	10.0	8.322	37	10 - 102.2

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

		MSD			Spike	Matrix		Rec.		\mathbf{RPD}
Param		Result	Units	Dil.	Amount	Result	Rec.	\mathbf{Limit}	RPD	Limit
GRO	18	9.57	mg/Kg	1	10.0	8.322	12	10 - 102.2	22	20

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

Surrogate	MS Result	$egin{array}{c} \mathrm{MSD} \ \mathrm{Result} \end{array}$	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.682	0.740	mg/Kg	1	1	68	74	47.2 - 84.2
4-Bromofluorobenzene (4-BFB)	0.933	0.873	mg/Kg	1	1	93	87	58 - 162.6

Standard (ICV-1)

QC Batch:	39974		Date A	nalyzed: 2007	-08-13	A	Analyzed By:
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	218	87	85 - 115	2007-08-13

Standard (CCV-1)

QC Batch: 39974

Date Analyzed: 2007-08-13

Analyzed By:

¹⁵MSD analyte out of range. MS/MSD has a RPD within limits. Therfore, MS shows extraction occured properly.

¹⁶MSD analyte out of range. MS/MSD has a RPD within limits. Therfore, MS shows extraction occured properly. ¹⁷MSD analyte out of range. MS/MSD has a RPD within limits. Therfore, MS shows extraction occured properly.

¹⁸RPD is out of control limits due to extraction process. Use LCS/LCSD to demonstrate method is under control.

Report Date: 3111	: August 16, 2	2007		ork Order: 7081 lmat Yates Uni		-	umber: 14 of 15 ea County, NM
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	224	90	85 - 115	2007-08-13
_ Standard (I	CV-1)						
QC Batch:	4004 9		Date Analy	zed: 2007-08-	14	Anal	yzed By: AR
			ICVs True	ICVs Found	ICVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	103	103	85 - 115	2007-08-14
Standard (C QC Batch: 4			Date Analy	zed: 2007-08-	14	Anal	yzed By: AR
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	96.6	96	85 - 115	2007-08-14
Standard (I QC Batch:			Date Ana	lyzed: 2007-0	8-14	А	nalyzed By:
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.101	101	85 - 115	2007-08-14
Foluene		mg/Kg	0.100	0.0898	90	85 - 115	2007-08-14
Ethylbenzene		mg/Kg	0.100	0.0889	89	85 - 115	2007-08-14
Xylene		mg/Kg	0.300	0.266	89	85 - 115	2007-08-14
Standard (C	CCV-1)						
QC Batch: 4	40066		Date Ana	lyzed: 2007-0	8-14	А	nalyzed By:
			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene	0	mg/Kg	0.100	0.108	108	85 - 115	2007-08-14
Foluene		mg/Kg	0.100	0.0933	93	85 - 115	2007-08-14
Ethylbenzene		mg/Kg	0.100	0.0906	91	85 - 115	2007-08-14
Xylene		mg/Kg	0.300	0.271	90	85 - 115	2007-08-14

Standard (ICV-1)

QC Batch: 40072

Date Analyzed: 2007-08-14

Analyzed By:

Report Da 3111	ate: August 16	5, 2007		Vork Order: 708 Jalmat Yates U		U	umber: 15 of 15 Lea County, NM
Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.933	93	85 - 115	2007-08-14
Standard QC Batch:	(CCV-1) 40072		Date A	nalyzed: 2007-	-08-14	P	Analyzed By:
			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	\mathbf{Flag}	COG/Jalmat Yates ICVs ICVs True Found Conc. Conc. mg/Kg 1.00 0.933 CCV-1) 40072 Date Analyzed: 20 CCVs CCVs True Found	Conc.	Recovery	Limits	Analyzed	
GRO		m mg/Kg	1.00	0.897	90	85 - 115	2007-08-14

							-							r	101	k	0	rde	vr;	7	-02	010	40)												
Ana	alysi	s Re	eau	ıe	st	and) E	Cha	in		of	Cu	ist	od	V	R	e	co	rd	l								AGE		1			OF:		<u> </u>	
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	HIG1 2) 682 AME:	4559		19	10	N. 1 nd,	Big Te TE M	Sp xas	rin; 1 79 ER:	970	St. 05	V7		fax (4	43		682	2-3	_	5 			MOD. 1 TX1005	いたので	Cd Cr Pd Hr Se							TDS. (Chloride)				
	(26_{-}					IK,	2 Ta	war	ce Z	٤							ME	THO	D			8015	4			7	093	0.38		Ľ	3				
PROJECT	NO.: 3111	[PRC CO	DJEC G/	T NAL	re: Sat Co	Yate	<u>s U</u>	hit	B	atte	<u>ry</u>			OF CONTAINERS	(N/X)					07602	309/05	2		ale Ae An	Volatiles	d Volatile	1. 8240/8	ad. Vol.	802/08	1/808		ta (Air)	estos)		
LAB I.D. NUMBER	DATE	TIME	MATRIX COMP.	GRAB	Le(<i>,</i>	LE D	ENTI	FICA	TION				NUMBER	FILTERED (Y/N)	HCL	BONH	JCE	NONE	RTEX BORDY602	MTHE 8020/802		PAH 6270	TCLP Metals Ag &	TCLP Vola	TCLP Semi Valatiles	ICC MS Vol. 8240/8260/624	GC.MS Se	PCB's 8080/608	Pest. 806	BOD, TSS, pH, Gemma Spec.	Alpha Be	PLM (Asbestos)		
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Please Fill out all copies - Laboratory retains yellow copy - Return original copy to Highlander Environmental Corp. - Project Managar retains pink copy - Accounting receives Gold copy.

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6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132

Lubbock, Texas 79424 El Paso, Texas 79922 Midland, Texas 79703 E-Mail: lab@traceanalysis com

800+378+1296 688•588•3443

806+794+1296 FAX 806 • 794 • 1298 FAX 915+585+4944 915•585•3443 432•689•6301 FAX 432+689+6313 917 • 201 • 5260

Analytical and Quality Control Report

Ike Tavarez **Highlander Environmental Services** 1910 N. Big Spring Street Midland, TX, 79705

Project Location: Jal, NM Project Name: COG/Jalmat TB Project Number: 3111

Report Date: May 1, 2008

Work Order: 8042513

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
157880	SB-1 0-2'	soil	2008-04-24	00:00	2008-04-25
157881	SB-1 5-7'	soil	2008-04-24	00:00	2008-04-25
157882	SB-2 0-2'	soil	2008-04-24	00:00	2008-04-25
157883	SB-2 5-7'	soil	2008-04-24	00:00	2008-04-25
157884	SB-3 0-2'	soil	2008-04-24	00:00	2008-04-25
157885	SB-3 5-7'	soil	2008-04-24	00:00	2008-04-25

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

This report consists of a total of 10 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael al

Dr. Blair Leftwich, Director

Standard Flags

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

Analytical Report

Sample: 157880 - SB-1 0-2'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	,
QC Batch:	47951	Date Analyzed:	2008-04-30	Analyzed By:	\mathbf{RG}
Prep Batch:	41236	Sample Preparation:	2008-04-30	Prepared By:	RG
		RL			
Parameter	\mathbf{Flag}	Result	Units	Dilution	\mathbf{RL}
Chloride		757	mg/Kg	10	3.25

Sample: 157880 - SB-1 0-2'

TPH DRO 47879 41166		Date Analyze	ed:	2008-04	-28	Analyzed B		,
		RL						
Fla	5	\mathbf{Result}		Unit	S	Dilution		\mathbf{RL}
		<50.0	*****	mg/K	g	1		50.0
Flag	Result	Units	Dilut	ion	Spike Amount	Percent		overy mits
e 1 1005			1					$\frac{11113}{250.4}$
	47879 41166 Flag	47879 41166 Flag Flag Result	47879 Date Analyze 41166 Sample Prepa RL Result Flag Result Flag Result	47879 Date Analyzed: 41166 Sample Preparation: RL RL Flag Result <50.0	47879 Date Analyzed: 2008-04 41166 Sample Preparation: 2008-04 RL RL Flag Result Unit Flag Result Unit Flag Result Dilution	47879 Date Analyzed: 2008-04-28 41166 Sample Preparation: 2008-04-28 RL RL Flag Result Units <50.0	47879 Date Analyzed: 2008-04-28 Analyz 41166 Sample Preparation: 2008-04-28 Preparation: RL RL Dilution <50.0	47879 Date Analyzed: 2008-04-28 Analyzed By: 41166 Sample Preparation: 2008-04-28 Prepared By: RL Result Units Dilution <50.0

Sample: 157880 - SB-1 0-2'

Analysis: QC Batch: Prep Batch:	TPH GRO 47924 41211		Analytical Date Anal Sample Pr		S 8015B 2008-04-29 2008-04-29	Prep Method Analyzed By: Prepared By:		By: MT
			\mathbf{RL}					
Parameter	\mathbf{Flag}		\mathbf{Result}		Units	D	ilution	\mathbf{RL}
GRO			<1.00		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)		1.03	mg/Kg	1	1.00	103	75.6 - 128
	robenzene (4-BFB)		1.31	mg/Kg	1	1.00	131	78.5 - 139

Sample: 157881 - SB-1 5-7'

Chloride		504 1	ng/Kg	50	2.00
Parameter	Flag	RL Result	Units	Dilution	RL
QC Batch: Prep Batch:	47898 41186	Date Analyzed: Sample Preparation:	2008-04-29 2008-04-29	Analyzed By: Prepared By:	
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A

Sample: 157882 - SB-2 0-2'

Analysis: QC Batch:	Chloride (Titration) 47951	Analytical Method: Date Analyzed:	SM 4500-Cl B 2008-04-30	Prep Method: Analyzed By:	
Prep Batch:	41236	Sample Preparation:	2008-04-30	Prepared By:	RG
		\mathbf{RL}			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		121	mg/Kg	10	3.25

Sample: 157882 - SB-2 0-2'

Analysis: QC Batch: Prep Batch:	TPH DRO 47879 41166		Analytical Me Date Analyze Sample Prepa	d:	Mod. 8 2008-04 2008-04	-28	Prep Method Analyzed By Prepared By:		N/A LD LD
Parameter	Fla	g	RL Result		Unit	S	Dilution		RL
DRO			<50.0		mg/K	g	1		50.0
Surrogate	Flag	Result	Units	Dilu	tion	Spike Amount	Percent Recovery		overy mits
n-Triacontan	e	60.5	mg/Kg	-	L	100	60	10 -	250.4

Sample: 157882 - SB-2 0-2'

Analysis: QC Batch: Prep Batch:	TPH GRO 47924 41211		Analytical Date Anal Sample Pr		S 8015B 2008-04-29 2008-04-29	Prep Metho Analyzed By Prepared By		By: MT
			\mathbf{RL}					
Parameter	Flag		Result		Units	D	ilution	\mathbf{RL}
GRO			<1.00		mg/Kg		1	1.00
Surrogate		Flag	\mathbf{Result}	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolue	ene (TFT)		1.08	mg/Kg	1	1.00	108	75.6 - 128
4-Bromofluor	obenzene (4-BFB)		1.35	mg/Kg	1	1.00	135	78.5 - 139

Sample: 157883 - SB-2 5-7'

Analysis: QC Batch: Prep Batch:	Chloride (Titration) 47898 41186	Analytical Method Date Analyzed: Sample Preparatio	2008-04-29	Prep Method: Analyzed By: Prepared By:	AR
		RL			
Parameter	\mathbf{Flag}	Result	Units	Dilution	\mathbf{RL}
Chloride	· · · · · · · · · · · · · · · · · · ·	<100	mg/Kg	50	2.00

Sample: 157884 - SB-3 0-2'

Analysis: QC Batch: Prep Batch:	Chloride (Titration) 47951 41236	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2008-04-30 2008-04-30	Prep Method: Analyzed By: Prepared By:	RG
Description		RL	I	Dilution	DI
Parameter	Flag	Result	Units	Dilution	RL
Chloride		125	mg/Kg	10	3.25

Sample: 157884 - SB-3 0-2'

Analysis: QC Batch: Prep Batch:	TPH DRO 47879 41166		Analytical Me Date Analyze Sample Prepa	ed:	Mod. 80 2008-04 2008-04	-28	Prep Met Analyzed Prepared		N/A LD LD
Parameter	Fla	g	RL Result		Unit	s	Dilution		RL
DRO			2370		mg/K	g	5		50.0
Surrogate	Flag	Result	Units	Dilut	ion	Spike Amount	Percent Recovery		overy mits
n-Triacontan	e	237	mg/Kg	5		100	237	10 -	250.4

Sample: 157884 - SB-3 0-2'

Analysis: QC Batch: Prep Batch:	TPH GRO 47924 41211		Analytical Date Anal Sample Pr		S 8015B 2008-04-29 2008-04-29	Prep Method Analyzed By Prepared By:		By: MT
Parameter GRO	Flag		RL Result 545		Units	D	ilution	RL
GRU			545		mg/Kg		10	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluo 4-Bromofluor	ene (TFT) obenzene (4-BFB)	1	$\begin{array}{r} 0.959 \\ 43.4 \end{array}$	mg/Kg mg/Kg	10 10	1.00 1.00	96 4340	75.6 - 128 78.5 - 139

Sample: 157885 - SB-3 5-7'

Analysis: QC Batch: Prep Batch:	Chloride (Titration) 47898 41186	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2008-04-29 2008-04-29	Prep Method: Analyzed By: Prepared By:	AR
		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		<100	mg/Kg	50	2.00

¹High surrogate recovery due to peak interference.

QC Batch: 47879		Date Analyzed:	2008-04-28	,	Analy	yzed By:	LD
Prep Batch: 41166		QC Preparation:				ared By:	LD
			DL		•.		
Parameter DRO	Flag		sult 15.8	Un			$\frac{\text{RL}}{50}$
DRO		1>	.9.0	mg	ng		
Summamata	Elen Decult	Units I):ltion	Spike	Percent	Reco	-
Surrogate n-Triacontane	Flag Result 70.5	mg/Kg	Dilution1	Amount 100	Recovery 70	Lin 30.9 -	
- macontane	10.0	mg/ Kg	1	100	10		140.4
Method Blank (1)	QC Batch: 47898						
QC Batch: 47898		Date Analyzed:	2008-04-29		Analy	zed By:	AR
Prep Batch: 41186		QC Preparation:				ared By:	AR
		М	IDL				
Parameter	Flag	Re	sult	-	uits		RI
Chloride		<0.	500	mg	/Kg		2
QC Batch: 47924	QC Batch: 47924	Date Analyzed: QC Preparation:	2008-04-29 2008-04-29			zed By: red By:	MT MT
•	QC Batch: 47924	QC Preparation:					
QC Batch: 47924 Prep Batch: 41211 Parameter	QC Batch: 47924 Flag	QC Preparation: M Res	2008-04-29 IDL sult		Prepa		MT RL
QC Batch: 47924		QC Preparation: M Res	2008-04-29 IDL		Prepa		МТ
QC Batch: 47924 Prep Batch: 41211 Parameter GRO	Flag	QC Preparation: M Re <0.	2008-04-29 IDL sult 144	mg Spike	Prepa iits /Kg Percent	red By:	MT RL 1 overy
QC Batch: 47924 Prep Batch: 41211 Parameter GRO Surrogate	Flag Flag	QC Preparation: M Rec <0. Result Unit	2008-04-29 IDL sult 144 s Dilutio	mg Spike n Amount	Prepa iits /Kg Percent Recovery	red By: Reco Lir	MT RL 1 overy nits
QC Batch: 47924 Prep Batch: 41211 Parameter	Flag Flag Flag	QC Preparation: M Re <0.	2008-04-29 IDL sult 144 s Dilutio $\zeta_g 1$	mg Spike	Prepa iits /Kg Percent	red By: Reco Lir 85 -	MT RL 1 overy
QC Batch: 47924 Prep Batch: 41211 Parameter GRO Surrogate Prifluorotoluene (TF I-Bromofluorobenzen	Flag Flag Flag	QC Preparation: M Res CO. Result Unit 0.974 mg/K	2008-04-29 IDL sult 144 s Dilutio $\zeta_g 1$	mg Spike n Amount 1.00	Prepa nits /Kg Percent Recovery 97	red By: Reco Lir 85 -	MT RI 1 overy nits - 116
QC Batch: 47924 Prep Batch: 41211 Parameter GRO Gurrogate Frifluorotoluene (TF I-Bromofluorobenzen Method Blank (1)	Flag Flag T) ie (4-BFB)	QC Preparation: M Res CO. Result Unit 0.974 mg/K	2008-04-29 IDL sult 144 s Dilutio $\zeta_g 1$	mg Spike n Amount 1.00	Prepa nits /Kg Percent Recovery 97 56	red By: Reco Lir 85 -	MT RI 1 overy nits - 116
QC Batch: 47924 Prep Batch: 41211 Parameter GRO Surrogate Prifluorotoluene (TF I-Bromofluorobenzen Method Blank (1) QC Batch: 47951	Flag Flag T) ie (4-BFB)	QC Preparation: M Res <0. Result Unit 0.974 mg/K 0.561 mg/K	2008-04-29 IDL sult 144 s Dilutio Xg 1 Xg 1	mg Spike n Amount 1.00	Prepa nits /Kg Percent Recovery 97 56 Analy	Recc Lir 85 - 45.2	MT RI 1 overy nits - 116 - 98.8
QC Batch: 47924 Prep Batch: 41211 Parameter GRO Surrogate Prifluorotoluene (TF I-Bromofluorobenzen Method Blank (1) QC Batch: 47951 Prep Batch: 41236	Flag Flag T) ie (4-BFB) QC Batch: 47951	QC Preparation: M Result Unit 0.974 mg/K 0.561 mg/K Date Analyzed: QC Preparation: MI	2008-04-29 IDL sult 144 s Dilutio $\frac{5}{200}$ 1 $\frac{2008-04-30}{2008-04-30}$ DL	mg, Spike n Amount 1.00 1.00	Prepa nits /Kg Percent Recovery 97 56 Analy Prepa	Recc Lir 85 - 45.2	MT RL 1 overy nits 116 - 98.8 RG RG
QC Batch: 47924 Prep Batch: 41211 Parameter GRO Surrogate Trifluorotoluene (TF 4-Bromofluorobenzen Method Blank (1) QC Batch: 47951	Flag Flag T) ie (4-BFB)	QC Preparation: M Result Unit 0.974 mg/K 0.561 mg/K Date Analyzed: QC Preparation:	2008-04-29 IDL sult 144 s Dilutio $\frac{5}{200}$ 1 $\frac{2008-04-30}{2008-04-30}$ DL ult	mg Spike n Amount 1.00	Prepa hits /Kg Percent Recovery 97 56 S6 Analy Prepa	Recc Lir 85 - 45.2	MT RL 1 overy nits 116 - 98.8 RG

Laboratory Control Spike (LCS-1)

QC Batch:	47879	Date Analyzed:	2008-04-28	Analyzed By:	LD
Prep Batch:	41166	QC Preparation:	2008-04-28	Prepared By:	LD

Param	$\begin{array}{c} \mathrm{LCS} \\ \mathrm{Result} \end{array}$	Units	Dil.	Spike Amount	Matrix Result	Rec.	${f Rec.}\ {f Limit}$
DRO	196	mg/Kg	1	250	<15.8	78	27.8 - 152.1

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{Result}	Units	Dil.	Amount	Result	Rec.	\mathbf{Limit}	RPD	Limit
DRO	224	mg/Kg	1	250	<15.8	90	27.8 - 152.1	13	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	\mathbf{Result}	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Triacontane	65.4	67.5	mg/Kg	1	100	65	68	38 - 130.4

Laboratory Control Spike (LCS-1)

QC Batch:	47898	Date Analyzed:	2008-04-29	Analyzed By:	AR
Prep Batch:	41186	QC Preparation:	2008-04-29	Prepared By:	AR

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	\mathbf{Amount}	\mathbf{Result}	Rec.	\mathbf{Limit}
Chloride	99.0	mg/Kg	1	100	< 0.500	99	85 - 115

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	Result	Rec.	\mathbf{Limit}	RPD	Limit
Chloride	100	mg/Kg	1	100	< 0.500	100	85 - 115	1	20

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

Laboratory Control Spike (LCS-1)

QC Batch:	47924	Date Analyzed:	2008-04-29	Analyzed By:	\mathbf{MT}
Prep Batch:	41211	QC Preparation:	2008-04-29	Prepared By:	\mathbf{MT}

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	9.96	mg/Kg	1	10.0	<0.144	100	76.4 - 115
Percent recovery is ba	ased on the spike result. RPD) is based on	the spike	and spike du	olicate result	•	
	LCSD		Spike	Matrix	R	lec.	RPD

	LCSD			эріке	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	9.70	mg/Kg	1	10.0	< 0.144	97	76.4 - 115	3	20

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

Report Date: May 1, 200 3111	8		V		ler: 804251 almat TB	13			Page N	Number:	7 of 10 Jal, NM
Surrogate		LCS Result		'SD sult	Units		Spike mount	LCS Rec.	LCSI Rec.		Rec. Limit
Trifluorotoluene (TFT)		0.996	6 0.9	941 1	ng/Kg	1	1.00	100	94	80	.3 - 113
4-Bromofluorobenzene (4-	BFB)	0.972	20.9	953 r	ng/Kg	1	1.00	97	95	70	.7 - 110
Laboratory Control Sp	oike (LCS	8-1)									
QC Batch: 47951			Date A	nalvzed:	2008-04	-30			Anal	yzed By	r: RG
Prep Batch: 41236				paration						ared By	
_		LCS				Spike		latrix			Rec.
Param		Resul		Units	Dil.	Amoun		esult	Rec.		Limit
Chloride		100	_	ng/Kg	1	100	,	(1.80	100	96	.8 - 10
Percent recovery is based	on the spi	ke result. 1	RPD is	based on	the spike	and spike	duplicat	e result	•		
		LCSD			Spike	Matrix	i	F	lec.		RPI
			TT. 14 -	Dil.	Amount	Result	Rec.	Li	imit	RPD	Limi
Param		\mathbf{Result}	Units	D_{Π} .							
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 47879	-	100 ke result. I Sample: 157	mg/Kg RPD is 7559 Date An	1 based on nalyzed:	2008-04	-28	<u>100</u> duplicat		Anal	0 lyzed By	
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 47879 Prep Batch: 41166	-	100 ke result. 1 Sample: 15' MS	mg/Kg RPD is 7559 Date An QC Pre	1 based on nalyzed: paration	the spike 2008-04 : 2008-04	and spike -28 -28 Spike	duplicat	e result	 Anal Prep	lyzed By bared By	y: LD y: LD Rec.
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 47879 Prep Batch: 41166 Param	Spiked S	100 ke result. 1 Sample: 157 MS Resul	mg/Kg RPD is 7559 Date Ar QC Pre	1 based on nalyzed: paration Units	the spike 2008-04 : 2008-04 Dil.	and spike 28 28 Spike Amoun	duplicat M R	e result atrix esult	Anal Prep Rec.	lyzed B bared By	y: LD 7: LD Rec. Limit
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 47879 Prep Batch: 41166 Param	-	100 ke result. 1 Sample: 157 MS Resul	mg/Kg RPD is 7559 Date Ar QC Pre	1 based on nalyzed: paration	the spike 2008-04 : 2008-04	and spike -28 -28 Spike	duplicat M R	e result	 Anal Prep	lyzed B bared By	y: LE y: LE Rec. Limit
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 47879 Prep Batch: 41166 Param DRO	Spiked S	100 ke result. 1 Sample: 157 MS Resul 3500	mg/Kg RPD is 7559 Date Ar QC Pre It	1 based on nalyzed: paration Units ng/Kg	the spike 2008-04 : 2008-04 Dil. 5	and spike -28 -28 Spike Amoun 250	duplicat M R 25	e result atrix esult 37.31	Anal Prep Rec. 385	lyzed B bared By	y: LD 7: LD Rec. Limit
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 47879 Prep Batch: 41166 Param DRO Percent recovery is based	Spiked S	100 ke result. 1 Sample: 157 MS Resul 3500	mg/Kg RPD is 7559 Date Ar QC Pre It) n RPD is	1 based on nalyzed: paration Units ng/Kg based on	the spike 2008-04 : 2008-04 Dil. 5	and spike -28 -28 Spike Amoun 250	duplicat M 25 duplicat	e result atrix esult 37.31 e result	Anal Prep Rec. 385	lyzed B bared By	7: LD 7: LD Rec. Limit - 179.
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 47879 Prep Batch: 41166 Param DRO Percent recovery is based Param	Spiked S	100 ke result. 1 Sample: 157 MS Resul 3500 ke result. 1 MSD Result	mg/Kg RPD is 7559 Date An QC Pre It) n RPD is Units	1 based on nalyzed: paration Units ng/Kg based on Dil.	2008-04 2008-04 2008-04 Dil. 5 the spike Amount	and spike -28 -28 Amoun 250 and spike Matrix Result	duplicat M 25 duplicat Rec.	e result atrix esult 37.31 e result F L	Anal Prep Rec. 385 Rec. imit	lyzed By pared By 18 RPD	7: LE 7: LE Limit - 179. RPI Limi
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 47879 Prep Batch: 41166 Param DRO Percent recovery is based Param	Spiked S	100 ke result. 1 Sample: 157 MS Resul 3500 ke result. 1 MSD Result	mg/Kg RPD is 7559 Date Ar QC Pre It) n RPD is	1 based on nalyzed: paration Units ng/Kg based on	the spike 2008-04 : 2008-04 Dil. 5 the spike Spike	and spike -28 -28 Amoun 250 and spike Matrix	duplicat M 25 duplicat Rec.	e result atrix esult 37.31 e result F L	Anal Prep Rec. 385 Rec.	lyzed By bared By 18	7: LI 7: LI Limit - 179 RPI Lim
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Prep Batch: 41166 Param DRO Percent recovery is based Param DRO Percent recovery is based	Spiked S	100 ke result. I Sample: 157 MS Resul 3500 ke result. I MSD Result 2470	mg/Kg RPD is 7559 Date Ar QC Pre lt <u>Units</u> mg/Kg RPD is	1 based on nalyzed: paration Units ng/Kg based on Dil. 5 based on	the spike 2008-04 2008-04 2008-04 Dil. 5 the spike Amount 250	and spike -28 -28 -28 Amoun 250 and spike Matrix Result 2537.3	M M 25 duplicato Rec. 0 duplicato	e result atrix esult 37.31 e result F L 18 -	Anal Prep Rec. 385 Rec. imit 179.5	lyzed By pared By 18 RPD	7: LE 7: LI Rec. Limit - 179 RPI
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 47879 Prep Batch: 41166 Param DRO Percent recovery is based Param DRO Percent recovery is based Surrogate	Spiked S 2 on the spi 3 on the spi MS Result	100 ke result. I Sample: 157 MS Result 3500 ke result. I MSD Result 2470 ke result. I MSD Result	mg/Kg RPD is 7559 Date An QC Pre lt Units mg/Kg RPD is NPD is	1 based on nalyzed: paration Units ng/Kg based on Dil. 5 based on Units	the spike 2008-04 2008-04 2008-04 Dil. 5 the spike Amount 250 the spike Dil.	and spike -28 -28 -28 and spike Matrix Result 2537.3 and spike Spike Amou	M M 25 duplicato Rec. 0 duplicato	e result atrix esult 37.31 e result 18 - e result MS Rec.	Anal Prep Rec. 385 Rec. imit 179.5 MSD Rec.	lyzed By pared By 18 <u>RPD</u> 34	y: LD Rec. Limit - 179. RPI Limi 20 Rec. Limit
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 47879 Prep Batch: 41166 Param DRO Percent recovery is based Param DRO Percent recovery is based	Spiked S 2 on the spi 3 on the spi MS	100 ke result. I Sample: 157 MS Resul 3500 ke result. I MSD Result 2470 ke result. I MSD	mg/Kg RPD is 7559 Date An QC Pre lt Units mg/Kg RPD is NPD is	1 based on nalyzed: paration Units ng/Kg based on Dil. 5 based on	the spike 2008-04 2008-04 2008-04 Dil. 5 the spike Amount 250 the spike	and spike -28 -28 -28 Amoun 250 and spike Matrix Result 2537.3 and spike Spike	M M 25 duplicato Rec. 0 duplicato	e result atrix esult 37.31 e result 18 - e result MS	Anal Prep Rec. 385 Rec. imit 179.5 MSD	lyzed By pared By 18 <u>RPD</u> 34	y: LI Rec. Limit - 179 RPI Lim 20 Rec. Limit
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 47879 Prep Batch: 41166 Param DRO Percent recovery is based Param DRO Percent recovery is based Surrogate n-Triacontane 4 5	Spiked S 2 on the spi 3 on the spi MS Result 169	100 ke result. I Sample: 157 MS Result 3500 ke result. I MSD Result 2470 ke result. I MSD Result	mg/Kg RPD is 7559 Date Ar QC Pre lt <u>Units</u> mg/Kg RPD is lt <u>1</u>	1 based on nalyzed: paration Units ng/Kg based on Dil. 5 based on Units	the spike 2008-04 2008-04 2008-04 Dil. 5 the spike Amount 250 the spike Dil.	and spike -28 -28 -28 and spike Matrix Result 2537.3 and spike Spike Amou	M M 25 duplicato Rec. 0 duplicato	e result atrix esult 37.31 e result 18 - e result MS Rec.	Anal Prep Rec. 385 Rec. imit 179.5 MSD Rec.	lyzed By pared By 18 <u>RPD</u> 34	y: LI Rec. Limit - 179 RPI Lim 20 Rec. Limit
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 47879 Prep Batch: 41166 Param DRO Percent recovery is based Param DRO Percent recovery is based Surrogate	Spiked S 2 on the spi 3 on the spi MS Result 169	100 ke result. I Sample: 157 Sample: 157 MSD Result 2470 ke result. I MSD Result 2470 ke result. I MSD Result 228 Sample: 157	mg/Kg RPD is 7559 Date Ar QC Pre lt <u>Units</u> mg/Kg RPD is lt <u>1</u>	1 based on nalyzed: paration Units ng/Kg based on Dil. 5 based on Units ng/Kg	the spike 2008-04 2008-04 2008-04 Dil. 5 the spike Amount 250 the spike Dil.	and spike -28 -28 -28 -250 and spike Matrix Result 2537.3 and spike Spike Amoun 100	M M 25 duplicato Rec. 0 duplicato	e result atrix esult 37.31 e result 18 - e result MS Rec.	Anal Prep Rec. 385 Rec. imit 179.5 MSD Rec. 228	lyzed By pared By 18 <u>RPD</u> 34	y: LE Rec. Limit - 179. RPI Limi 20 Rec. Limit .1 - 15

²Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
 ³Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
 ⁴High surrogate recovery due to peak interference.
 ⁵High surrogate recovery due to peak interference.

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Report Date: May 1, 2008 3111				ler: 804251 almat TB	3		-	Page N	umber: J	8 of 10 Jal, NM
Param		4S sult	Units	Dil.	Spike Amour		latrix .esult	Rec		Rec. Limit
Chloride	55	220	mg/Kg	50	5000	1	74.74	101	8	5 - 115
Percent recovery is based on the	e spike result	. RPD is	based on	the spike a	and spike	duplicate	result.			
5	-			-	-	-				
-	MSD			Spike	Matri		Re			RPD
Param	Result	Unit		Amount			Lin		RPD	Limi
Chloride	5300	mg/K		5000	174.74		85 -	115	2	20
Percent recovery is based on the Matrix Spike (MS-1) Spil	ked Sample:		based on	tne spike a	and spike	dupiicate	result.			
QC Batch: 47924		Date A	nalyzed:	2008-04-	29			Analy	zed By:	: MT
Prep Batch: 41211			eparation:					•	red By:	
	Ν	IS			Spike	Ма	trix			Rec.
Param		sult	Units	Dil.	Amount		sult	Rec.		Limit
GRO		72	mg/Kg	20	10.0	2	40	320		1 - 154
Percent recovery is based on the	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec Lim	it	RPD	RPD Limit
GRO	7 313	mg/K	g 20	10.0	240	730	40.1 -	154	14	20
Percent recovery is based on the	e spike result	. RPD is	based on	the spike a	and spike	duplicate	result.			
		MS	MSD			C !!	MS	MSE	`	n
Surrogate			Result	Units		Spike mount	Rec.	Rec.		Rec. Limit
Trifluorotoluene (TFT)		.12		mg/Kg	20	1	112	113		<u>6 - 155</u>
4-Bromofluorobenzene (4-BFB)		5.3		mg/Kg	20	1	1530	2410		1 - 176
Matrix Spike (MS-1) Spil	ked Sample: 1			2008-04-	30				vzed By ared By:	
•		Date A QC Pr	eparation:					Prepa	ned by	
Prep Batch: 41236	M	QC Pr	eparation:	2008-04-	30 Spike		trix	-		Rec.
Prep Batch: 41236 Param	Res	QC Pr Sult	eparation: Units	2008-04- Dil.	30 Spike Amount	Re	sult	Rec.	I	Rec. Limit
Prep Batch: 41236 Param Chloride	Res	QC Pr S Sult	eparation: Units mg/Kg	2008-04- Dil. 10	30 Spike Amount 500	Re:	sult .76	-	I	Rec.
-	Res	QC Pr S Sult	eparation: Units mg/Kg	2008-04- Dil. 10	30 Spike Amount 500	Re:	sult .76	Rec.	I	Rec. Limit
Prep Batch: 41236 Param Chloride	Res	QC Pr S Sult	eparation: Units mg/Kg	2008-04- Dil. 10	30 Spike Amount 500	Re:	sult .76	Rec. 96	I	Rec. Limit
Prep Batch: 41236 Param Chloride	Res 51 e spike result	QC Pr S Sult	eparation: Units mg/Kg based on Dil.	2008-04- Dil. 10 the spike a	30 Spike Amount 500 and spike o	Re:	sult .76 result.	Rec. 96	I	Rec. Limit 4 - 123

⁷Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control. ⁸Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control. ⁹Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

Standard (ICV-1)

QC Batch:	47879		Date Ana	alyzed: 2008-0	Analyzed By: LD			
Param DRO	Flag	Units mg/Kg	ICVs True Conc. 250	ICVs Found Conc. 235	ICVs Percent Recovery 94	Percent Recovery Limits 85 - 115	Date Analyzed 2008-04-28	
Standard QC Batch:	(CCV-1) : 47879	<u></u>	Date An	alyzed: 2008-0	4-28	Ana	lyzed By: LD	
			CCVs	CCVs	CCVs	Percent		

			00 v 8	00 v s	00 83	reitent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	214	86	85 - 115	2008-04-28

Standard (CCV-2)

QC Batch:	47879		Date Ana	alyzed: 2008-0	4-28	Ana	lyzed By: LD
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	\mathbf{Flag}	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	218	87	85 - 115	2008-04-28

Standard (ICV-1)

QC Batch:	47898		Date Ana	lyzed: 2008-04	1-29	Analyzed By: AR				
			ICVs	ICVs	ICVs	Percent				
			True	Found	Percent	Recovery	Date			
Param	\mathbf{Flag}	Units	Conc.	Conc.	Recovery	Limits	Analyzed			
Chloride		mg/Kg	100	99.8	100	85 - 115	2008-04-29			

Standard (CCV-1)

QC Batch:	47898		Date Anal	yzed: 2008-04	-29	Anal	yzed By: AR
			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2008-04-29

Standard (ICV-1)

QC Batch: 47924

Date Analyzed: 2008-04-29

Analyzed By: MT

Report Da 3111	ate: May 1, <u>20</u>	08	Wo C		Page N	umber: 10 of 10 Jal, NM	
Param GRO	Flag	Units mg/Kg	ICVs True Conc. 1.00	ICVs Found Conc. 0.920	ICVs Percent Recovery 92	Percent Recovery Limits 85 - 115	Date Analyzed 2008-04-29
Standard	(CCV-1)						
QC Batch:			Date Ana	lyzed: 2008-04	1-29	Anal	yzed By: MT
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.954	95	85 - 115	2008-04-29
Standard QC Batch:	. ,		Date Ana	lyzed: 2008-04	4-30	Anal	yzed By: RG
			ICVs True	ICVs Found	ICVs Percent	Percent Recovery	Date
Param Chloride	Flag	Units mg/Kg	Conc. 100	<u>Conc.</u> 100	Recovery 100	Limits 85 - 115	Analyzed 2008-04-30
Standard	. ,						
QC Batch:	47931		Date Ana	lyzed: 2008-04	4-30	Anal	yzed By: RG
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride	···	mg/Kg	100	100	100	85 - 115	2008-04-30

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Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Highlander Environmental Corp. - Project Manager retains Pink copy - Accounting receives Gold copy.

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Internation Inc.

6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 6015 Harris Parkway, Suite 110

9 Lubbock Texas 79424 800•378•1296
 El Paso, Texas 79922 888•588•3443
 Midland, Texas 79703
 0 Ft Worth, Texas 76132
 E-Mail lab@traceanalysis.com

800 • 378 • 1296 806 • 794 • 1296 888 • 588 • 3443 915 • 585 • 3443 432 • 689 • 6301 817 • 201 • 5260

 806 • 794 • 1296
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 432 • 689 • 6301
 FAX 432 • 689 • 6313

 817 • 201 • 5260
 FAX 432 • 689 • 6313

Analytical and Quality Control Report

Ike Tavarez Highlander Environmental Services 1910 N. Big Spring Street Midland, TX, 79705

Project Location:Jal, NMProject Name:COG/Jalmat TBProject Number:3111

Report Date: May 8, 2008

Work Order: 8042513

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
157885	SB-3 5-7'	soil	2008-04-24	00:00	2008-04-25

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

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

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Sample: 157885 - SB-3 5-7'

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Analytical Report

QC Batch: 4	PH DRO 7997 1270		Analytical Me Date Analyze Sample Prepa	d: 2008-0	5-02	Analyz	Method:N/Azed By:LDzed By:LD
Parameter	Fla	g	RL Result	Uni	ts	Dilution	\mathbf{RL}
DRO			111	mg/ł	Кg	1	50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		92.6	mg/Kg	1	100	93	10 - 250.4

Sample: 157885 - SB-3 5-7'

Analysis: QC Batch: Prep Batch:	TPH GRO 48018 41288		Analytical Date Anal Sample Pr	yzed:	S 8015 B 2008-05-01 2008-04-30		Prep Meth Analyzed I Prepared F	By: DC
Parameter			RL Result	oparation.	Units	D	lution	RL
	Flag							
GRO			43.6		mg/Kg		2	1.00
Surrogate		Flag	\mathbf{Result}	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)		2.12	mg/Kg	2	2.00	106	70 - 130
4-Bromofluor	robenzene (4-BFB)		2.20	mg/Kg	2	2.00	110	70 - 130

Method Blank (1) QC Batch: 47997

QC Batch: Prep Batch:	47997 41270		Date Analyz QC Preparat				alyzed By: LD pared By: LD
				MDL			
Parameter		\mathbf{Flag}		Result		Units	\mathbf{RL}
DRO			····	<15.8		mg/Kg	50
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontan	9	102	mg/Kg	1	100	102	30.9 - 146.4

Method Blank (1) QC Batch: 48018

QC Batch:	48018	Date Analyzed:	2008-05-01	Analyzed By:	DC
Prep Batch:	41288	QC Preparation:	2008-04-30	Prepared By:	DC

38 - 130.4

Parameter	Flag		$egin{array}{c} \mathrm{MDL} \ \mathrm{Result} \end{array}$		Units		\mathbf{RL}
GRO			<0.739		mg/K	g	1
					Spike	Percent	Recovery
Surrogate	\mathbf{Flag}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.948	mg/Kg	1	1.00	95	70 - 130
4-Bromofluorobenzene (4-BFB)		0.955	mg/Kg	1	1.00	96	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch:	47997	Date Analyzed:	2008-05-02	Analyzed By:	LD
Prep Batch:	41270	QC Preparation:	2008-05-01	Prepared By:	LD

	LCS			Spike	Matrix		Rec.
Param	\mathbf{Result}	Units	Dil.	Amount	Result	Rec.	Limit
DRO	269	mg/Kg	1	250	<15.8	108	27.8 - 152.1

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

		LCSD			Spike	Matrix		\mathbf{R}	ec.		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Liı	nit	RPD	Limit
DRO		268	mg/Kg	1	250	<15.8	107	27.8 -	152.1	0	20
Percent recovery is b	ased on the sp	ike result.	RPD is b	ased o	n the spike a	and spike o	luplicat	e result			
	LCS	LCSD				Spike	L	CS	LCSD		Rec.
Surrogate	\mathbf{Result}	Result	U	nits	Dil.	Amount	R	ec.	Rec.		Limit
n-Triacontane	110	106	mg	;/Kg	1	100	1	10	106	38	3 - 130.4

Laboratory Control Spike (LCS-1)

QC Batch:	48018	Date Analyzed:	2008-05-01	Analyzed By:	DC
Prep Batch:	41288	QC Preparation:	2008-04-30	Prepared By:	DC

mg/Kg

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	8.20	mg/Kg	1	10.0	<0.739	82	70 - 130

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	Result	Rec.	Limit	RPD	Limit
GRO	8.37	mg/Kg	1	10.0	< 0.739	84	70 - 130	2	20

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

Surrogate	$\begin{array}{c} \mathrm{LCS} \\ \mathrm{Result} \end{array}$	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.976	0.936	mg/Kg	1	1.00	98	94	70 - 130
4-Bromofluorobenzene (4-BFB)	0.981	0.994	mg/Kg	1	1.00	98	99	70 - 130

Matrix Spike (MS-1) Spiked Sample: 157885

QC Batch:	47997	Date Analyzed:	2008-05-02	Analyzed By:	LD
Prep Batch:	41270	QC Preparation:	2008-05-01	Prepared By:	LD

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO	289	mg/Kg	1	250	110.76	71	18 - 179.5

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO	291	mg/Kg	1	250	110.76	72	18 - 179.5	1	20

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

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Triacontane	105	104	mg/Kg	1	100	105	104	34.1 - 158

Matrix Spike (MS-1) Spiked Sample: 157993

QC Batch:	48018	Date Analyzed:	2008-05-01	Analyzed By:	DC
Prep Batch:	41288	QC Preparation:	2008-04-30	Prepared By:	DC

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	10.3	mg/Kg	1	10.0	<0.739	103	70 - 130

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	10.1	mg/Kg	1	10.0	<0.739	101	70 - 130	2	20

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

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.12	1.10	mg/Kg	1	1	112	110	70 - 130
4-Bromofluorobenzene (4-BFB)	1.17	1.15	mg/Kg	1	1	117	115	70 - 130

Standard (ICV-1)

QC Batch:	47997		Date Ana	alyzed: 2008-0	5-02	Ana	lyzed By: LD
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
\mathbf{Param}	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	271	108	85 - 115	2008-05-02

Standard (CCV-1)

QC Batch: 47997

Date Analyzed: 2008-05-02

Analyzed By: LD

Report Da 3111	ate: May 8, 20	08		/ork Order: 804 COG/Jalmat T		Page	Number: 5 of 5 Jal, NM
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	277	111	85 - 115	2008-05-02
Standard	(ICV-1)						
QC Batch:	: 48018		Date Ana	alyzed: 2008-0	5-01	Ana	lyzed By: DC
Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO	1 105	mg/Kg	1.00	1.03	103	85 - 115	2008-05-01
Standard	(CCV-1)						
QC Batch:	: 48018		Date Ana	alyzed: 2008-0	5-01	Ana	lyzed By: DC
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.899	90	85 - 115	2008-05-01

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WO # 8042513

Analysis	Request	of Cha	in of Cus	todv	Re	ec	:0	rd									PAG			1	C	F:		
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	1910	N. Big S	Spring St. as 79705			• •	1,				(Ext. to C35)	Pb Hg Se	운											
(432) 682-4559				Fax (4	32)	68	2-3	394	16			L D PO	≽									pH, TDS		
CLIENT NAME:		SITE MANAGER IK: Tay			NERS	P		ERV	ATIVE DD		TX1005	As Ba C	As Ba C	6		8260/624	270/625					ns, pH,		
PROJECT NO.: 3111	PROJECT NAME: COG 7ALM	A W	JAL, NM		- CONTA]	8015 MOD.			iles Volatile		8240/8	nl. Vol. 8	80		ec.	stos)	ns/Catic		
LAB I.D. NUMBER DATE TIM	AMATRIX COMP. GRAB	SAMPLE	, IDENTIFICATION		NUMBER OF CONTAINERS FILTERED (Y/N)	HCL	HN03	ICE	NONE	BTEX 8021B	TPH 801 0AH 8270	RCRA Metals Ag	TCLP Metals Ag	TCLP Volatiles TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8	GC.MS Serril. Vol. 8270/625 DCP's BRANKOR	Pest. 808/608	Chioride	Gamma Spec.	Alpha Beta (Alr) PLM (Asbestos)	Major Anions/Cations,		
157880 04)2108	S V SB-	-1 (0-2')	*		1			\checkmark	/		J								\checkmark					
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CONTACT SAMPLE CONDITION WHEN RECE 3. 2 inter Blasse III out all cooler	PHÓNE: IVED: R	EMARKS: * 14TE	H is 21,000 mg/ -tlats - Mud	Ky run N	ex+	dee	•	San													_			<u>(No</u>)

APPENDIX C INITIAL/FINAL C-141'S

District I							•			P 02/02	
LONG IN JUNER	Dr., Hobbs, N	IM 88240				Yew Mexi			`		Form C-1
District II 1301 W. Grand	Avenue, Ane	sia, NM 88210		Energy Mine	•			•	1		vised Ocrober 10, 20
District III 000 Rig Bruzo	os Road, Aziec	, NN 894K (062(100		ation Div		•		District (opies to appropria
<u>District IV</u> 220 S St. Fran				1220 3		St. Franc NM 875				wi	th Rule 116 on ba side of for
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Name of Co		0000	ation 11	<u> </u>		OPERAT	Kanicia C	arrilla	and the second s	al Report	- Final Rep
				land, TX 79701			lo. 432-685-4				
Facility Na	me 1	lalmat Yat	es Unit	Battery	· f	acility Typ	e Tank Bat	tery	•		
Surface Ow	vner			Mineral Ow	mer		· · · ·		Lease]	No. 30104	8
				LOCAT	rion	OF REI	LEASE				•
Unit Letter	Section	Township	Range			South Line	Feet from the	East/V	Vest Line	County	
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	<u></u>			titude		Longitud		<u> </u>			
			LA								
Type of Rela		duced & fr	esh wat		KE	OF RELI Volume of	Release 600 bbl	s	Volume	Recovered	Full recovery
••					_				expected		
Source of Re	elease	Batte	erv.			Date and H 08/07/07	our of Occurrenc			Hour of Discontraction	
Was Immedi	iate Notice G	liven?				If YES, To					
D. 11/2				No 🗌 Not Requ	ured	Data and th	0.00		SS NMOC	Ч	•
By Whom? Was a Water	COG rcourse Reac						lour 9:00 am (
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	ca Affected a	•									
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in second	•										
I hereby cert	ify that the in	nformation gi	ven above	e is true and completend/or file certain rele	c 10 1h	e best of my	knowledge and u	nderstan	d that pur	suant to NM	OCD rules and
public health	n or the envir	onment. The	acceptant	ce of a C-141 report	by the	NMOCD m	arked as "Final R	epon" d	oes not rol	ieve the oper	ator of hability
should their of the enviro	operations ha	ave failed to a idition. NMC	Adequately CD accer	investigate and rem nance of a C-141 rep	nediate port de	contaminati cs not reliev	on that pose a three the operator of a	eat to gr	ound wate bility for c	r, surface wa	ter, human health ith any other
federal, state					1			•			
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Signature: Printed Num	e: Kanicia	Carrillo				pproved by	ENUI Ro District Supervise		Clab	<u>~sn</u>	
Printed Num							District Supervise			Date:	
Printed Name	Regulatory	Analyst				pproval Dat				Date:	
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	District I 1625 N French District II			•			New Mex and Natura	ico 1 Resources			Rev		rm C-141 ber 10, 2003
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	District IV 1220 S St. Fran	cis Dr., Sant	ESTIN 8750				, NM 875					si	ide of form
_		3		Rel	ease Notific	ation	and Co	orrective A	ction				•
				- 4 ²	<u> </u>		OPERAT	<u>FOR</u> Diane Ku	-		al Report	<u> </u>	inal Report
	Name of Co Address 55				land, TX 79701		Contact Telephone N	No. 432-685-4					
	Facility Nan	ne	Jalmat Yat	es Unit	Battery]]	Facility Typ	e Oil Batte	ry				
•	Surface Own	ner			Mineral C)wner				Lease N	lo. 30104	8	
			<u></u>				OF REI						
	Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/V	West Line	County	•	
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	Type of Relea		oduced oil 8	water le	eak		300 BW	Release 50 BO &			lecovered 2		270 BW
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	Was Immedia	te Notice C		Yes [No 🗌 Not Re	auired	If YES, To	Whom?	Hob	bs NMOCI			
_	By Whom?	COC	Pumper Wa	_				lour 11:00 am	7/00/0				
	Was a Watero	course Read		Yes 🗵] No		If YES, Vo	lume Impacting t	he Wate	ercourse.	40202	12-	
-	If a Watercou	rse was Im		••			L	• • • • •			1819202	<u>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</u>	2
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						: 7	•	· · · . · ·			TEL.	4607 7	262728
	Describe Cau									LUOL		in the	Å'
_					he oil tanks. The	e oil tan	k over flowe	d. Called vacuu	m truck	i ji	8. 	19	<u>, (</u> ,
	Describe Area		-									'a "	
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	work plan,		-b					aro nginana		onnonta	1 400033 1	,	
-										<u>-</u>		······	
	regulations all	operators a	are required to	o report an	is true and compl id/or file certain re	elease no	tifications an	d perform correct	tive acti	ons for rele	ases which r	nav enda	nger
	should their o	perations ha	ave failed to a	dequately	e of a C-141 repo investigate and re	emediate	contaminatio	on that pose a three	at to gr	ound water	surface wat	er huma	n health
	or the environ federal, state,	ment. In ac	dition, NMO	CD accep	tance of a C-141	report do	es not relieve	e the operator of r	esponsi	bility for co	mpliance wi	ith any ot	her
1	\)	$\overline{\lambda}$	<u> </u>			OIL CONS	SERV	ATION	DIVISIO	N	
	Signature:	Dian	211	- Jan	dall			ENVIROE				. .	
	C Printed Name:	: Diane K	Cuykendall			A	pproved by	District Supervise	NGR Time	\bigcirc			;
-	Title:	Regulatory	Analyst				upproval Date	: 7.11.07		ivpuration I	Date: 8.7	20.07	· · ·
	E-mail Addres		•	resources	 				- 14		1	20.0 (
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1 D	District I 625 N. French District II						f New Mex s and Natura				Form C-141 Revised June 10, 2003
	<u>District III</u> 000 Rio Brazo District IV	s Road, Azte	esia, NM 88210 c, MQ71100 a Fe, NM 87505	6 200	Jo 1220) Sou	ervation Div th St. Franc Fe, NM 875	is Dr.			Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form
	Ť			Rel	ease Notifi	1000			ction	<u> </u>	
		·	,e 4				OPERA				al Report / Final Report
			COG Operati				Contact: Pa				
	A second s		and the second se		/lidland, Tx 797	01		No. (432) 686-3			
	Facility Nai	me: Jaima	t Yates Unit	Battery	······································			e: Tank Battery	/		
	Surface Ow	mer Unkr	10wn		Mineral (Dwner	Unknown			Lease 1	No. NM-301048
					LOCA	ATIC	DN OF REI	LEASE			
L.	Unit Letter A	Section\ 13	Township 25S	Range 36E	Feet from the 1050'	Nort Nort	h/South Line h	Feet from the 1100'	East/V East	West Line	County Lea
			 Latitı	ide 3	2 08.101		Longitud	le 103 12	2.826		
•						UR	E OF RELI				-
			ced and Fresh	Water spi	11			Release 600 BBI			Recovered unknown
-	Source of Re	lease Tank	Battery				08/07/07	our of Occurrenc	ce		Hour of Discovery @ 9:00 AM NM Time
	Was Immedi	ate Notice (v [7]	N. [] N		If YES, To				
┛┝	D., When?			Yes	No 🗌 Not Re	quireo	Date and H				
_ 1	By Whom? COG pumpe:	r Warren Hi	unt					9:00 AM NM Ti	me		
	Was a Water	course Read		Yes 🛛	No		If YES, Vo	lume Impacting t	he Wate	ercourse.	
-	If a Watercou	urse was Im	pacted, Descri								
	None		puerea, Deseri	ioe r uny:							
╸┝╴	Describe Cau	use of Probl	em and Remed	dial Actio	n Taken.* Electri	cal fail	ure caused the	pumps to stop and	d the wa	ater was stil	ll flowing. Called for clean up.
	Describe Are Leak was coud depth of imp	a Affected antained with act. Upon c	and Cleanup A the battery. Normaletion, site	Action Tal Vacuum ti e was exc	cen.* ruck onsite to rem avated to a depth	nove sp	oilled liquids. T	etra Tech person	nel hanc	d augered a	nd drilled site to determine Jundance Disposal of Eunice,
			backfilled and			lete to	the best of my	knowledge and u	nderstar	nd that purs	suant to NMOCD rules and
	regulations a	ll operators	are required to	o report ar	nd/or file certain r	elease	notifications an	d perform correc	tive acti	ions for rele	eases which may endanger
											ieve the operator of liability r, surface water, human health
	or the enviro	nment. In a	ddition, NMO	CD accep	ptance of a C-141	report	does not relieve	e the operator of r	responsi	ibility for co	ompliance with any other
┛┝╴	iederal, state	, or local lay	ws and/or regu	liations.				OIL CONS	SERV	ATION	DIVISION
_ .	Signature:	D\$	LE.E.	el.				<u> </u>	-	J.L	
	Signature: C	Tank		- ug	······································		Approved by	District Superview		(and all a second	
━└┘	Printed Name	e: Pat Ellis	·					District Supervise ENVIR	<u>ronm</u>	<u>ENTAL I</u>	ENGINEER
	Title: Enviro	nmental EH	&S Advisor		m		Approval Date	e: 11.10.01	8 1	Expiration 1	Date:
	E-mail Addre	ess: pellis@	conchoresour)	ces.com			Conditions of	Approval:			Attached
	Date: 10	/03/08	Phone	: (432) 68	6-3023					/	IRP 1402
* A	Attach Addi	tional Shee	ets If Necessa	ary			· · · · · · · · · · · · · · · · · · ·			(#2
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