RECEIVED

District I
1625 N French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Phone: (432) 687-0901 (Office) (432) 556-8656 (Cell)

* Attach Additional Sheets If Necessary

State of New Mexico
Energy Minerals and Natural Resources JUL 2 2 2010

Form C-141 Revised October 10, 2003

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 HOBBSOCD

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

1220 5. 51. 1 1411	icis Di., Suiti	a i e, i vivi e i se.	,	Sa	anta E	e, NM 875	05					5100 01 101111
			Rele	ease Notific	catio	n and Co	orrective A	ction		THI		<u> </u>
						OPERA'			1 11	al Report		Final Report
Name of Co	ompany: S	Samson Resc	urces Co	mpany			utumn Long			ui report		- I mai recpond
				OK 74103-3103			No.: (918) 591-	1364				
Facility Nar	me: C.S. C	Caylor				Facility Typ	e: CTB Produc	ed Wa	ter Line			
Surface Ow	ner: State	of New Me	xico	Mineral C	Owner				Lease 1	Vo. API#	30-025	-05430
				LOCA	ATIC	N OF RE	LEASE					
Unit Letter D	Section 6	Township 17S	Range 37E	Feet from the 660	Nort	h/South Line FNL	Feet from the 665	1	West Line FWL	County: Lea		
L	1	1		Latitude: 32.8	26899	N Longitud	e· -103 29661 V	V				
						E OF REL		<u>.</u>				
Type of Rele	ase: Produ	ced Water		1177	·		Release: 50 BBI		Volume I	Recovered:	40 BB	L
		d in Poly Line	;			Date and I	lour of Occurrence		Date and	Hour of D	iscovery	
Was Immedi	ata Matina (Given?				05/22/2010 If YES, To); Unknown		05/22/20	10; 10:00	A.M.	· · · · · · · · · · · · · · · · · · ·
was innieur	ate Notice (Yes [No Not R	equired							
By Whom?							Hour: 05/22/2010			l Time		
Was a Water	course Read	ched?	Yes ⊠	1 No		If YES, Vo	olume Impacting t	the Wat	ercourse.			
10 337												
N/A	urse was iiii	pacted, Descr	ibe rully.	•								
				n Taken.*A fused								
				-up 40 barrels of are being identifi		rom east side of	of lease road. Ban	ita Rous	tabouts re-	fused conn	ection i	n the poly line
				ken.*Soil was ex		d along east sid	de of lease road b	etween	about 5 an	d 8 feet be	low gro	und and taken
				ew Mexico. Botto								
				ewall samples co bal approved to fi								
I hereby cert	ify that the	information	given abo	ve is true and cor	nplete	to the best of	my knowledge a	nd unde	rstand that	pursuant t	to NMC	OCD rules and
				and/or file certai								
				nce of a C-141 re y investigate and								
or the enviro	onment. In	addition, NN	10CD acc	eptance of a C-1								
federal, state.	, or local lav	ws and/or regi	ulations.				OH COM	CEDY	ATION	DIMIGI	ONI	
		\rightarrow	~				OIL CON	SERV	ATION	DIVISI	<u>ON</u>	
Signature:		77	`						10hm	>0 P		
Printed Name	e: Mark J. I	Larson				Approved by	District Supervis	T NME	NTAL E	NGINEE	F	
Title: Sr. Pro	iect Manage	er, Larson &	Associates	, Inc. (Consultant)	Approval Da	_		Expiration			
				, (- >								
E-mail Addre Date: 06/28		laenvironmen	tal.com			Conditions of	f Approval:			Attache	d 🔲	
1 Date. 00/40	112010				1					1		

(INITARI LZAK)

District.1
, o25 N. French Dr., Hobbs NM 88240
District.B
1301 W. Grand Avenue, Artesia, NM 88210
District.B
1000 Rio Brazos Road, Aztec, NM 87410
District.B
1220 S. St. Francis Dr., Santa Fe, NM 87505

APPS PLUS 7270

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003 abmit 2 Copies to appropriate

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of torm

	Release	Notifica	tion	and Co	rrective A	ction				
				OPERA	TOR	(X Ini	ial Report	Final Rep	13:1
Name of Company: Samson Resour	rces Compan	У			utumn Long					
Address: Two West Second Street Facility Name: C. S. Caylor					No.: (918) 591- ne: CFB Produc					_
										
Surface Owner: State of New Mexic	0	Mineral Ow	mer: S	Samson Re	sources Compar	ny	Lease 1	io.:(API *	<u> </u>	
				OF RE						
	Range Feet 660)	North/S FNL	South Line	Feet from the 665	East/V FWL	Vest Line	County Lea		
	Latitu			_	le: <u>-103.29661</u>	W		WIR	8 ව'	
E - of Dalor at Declared Water		_ NATU	RE	OF REL	Release: 50 Bar	1:		2	to the	
Type of Release: Produced Water Source of Release: Weld in Polylme					four of Occurrence		Date and	Hour of Di 10: 10.00 A		
Was Immediate Notice Given? X-Yo	es 🗌 No [Not Requi	ired	If YES, To Geoff Leki		.,				-
By Whom? Floyd Steed - Production F	oreman				Iour: 05/22/2010					
Was a Watercourse Reached!	Yes 🔯 No		Ì	If YES, Vo	ntume Impacting (the Wate	aconve: 1	K/A		
If a Watercourse was Impacted, Describe	: Fully."									
Describe Cause of Problem and Remedia A fused weld in the above ground 2" pol- picked-up 40 barrels water from east side actions are being identified	y line came ap	oart causing re								-
Describe Area Affected and Cleanup Act Area affected is approximately 131 yards		de of lease roa	and and	approximate	ly six (6) feet wic	le Alls	standing th	nds were v	icuumed-up.	
Thereby certify that the information give regulations all operators are required to r public health of the environment. The ac- should their operations have failed to ade- or the environment. In addition, NMOCI federal, state, or local laws and/or regular	eport and/or fr ceptance of a quately invest D acceptance o	le certain role C-141 report igate and rem	ase not by the lediate	tifications at NMOCD m contaminati	nd perform correct arked as "Final R on that pose a thre	ctive acti eport ' d eat to gr	ons for rele oes not rele ound water	eases which eve the ope , surface w	t may endanger trator of hability ater, human health	
			1		OIL CON	SEBY	ATION	DIVISIO	<u> </u>	
Signature ((still(still))) - 7	5-61.5						Office			
Printed Name: Antamn Long	· : '		- ^	pproved by	District Engy P	MNO	ENTAL.	ENGINE	ER	-
Tule: Environmental Specialist				pproval Dat	c: 6.8.10	, [Expiration	Date: Q	0.9.10	
E-mail Address: autumnl@samson.com	v		-	onditions of	.,	,		Austred		i
Date: May 24, 2010 Phone: (Attach Additional Sheets If Necessary	(918) 591-1364 V	4	5	UBMIT (1)	VAD (2.141 W	\	s B4	11R+#	10.6.2553	}
1201 - 100 6691	9		LA	PSON	& Assoc.	ر حار	PLONE	SIATE "	Snz	

RECEIVED

JUL 2 2 2010 HOBBSOCD

REMEDIATION REPORT Produced Water Flow line Leak

C.S. Caylor Lease 1RP-2553

Lea County, New Mexico

Project No. 10-0112

June 28, 2010

Prepared for:
Samson Resources Company
Two West Second Street
Tulsa, Oklahoma 74103-3103

Prepared by: Mark J. Larson Project Manager

Larson & Associates, Inc. 507 North Marienfeld, Suite 200 Midland, Texas 79701

1RP-2553 Caylor Injection Line Remediation Report Samson Resources Lea County, New Mexico

June 28, 2010

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Figure 3 Leak Release and Boring Locations

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Appendix B Photo Documentation

Appendix C Initial and Final C-141 Forms

June 28, 2010

1.0 Executive Summary

This report is submitted to the New Mexico Oil Conservation Division (OCD) on behalf of Samson Resources Company (Samson) by Larson & Associates, Inc. (LAI), its consultant, to report the remediation of a produced water leak that occurred approximately 200 feet south of the Lovington Paddock Unit Well #118 (API #30-025-31275) in Unit D (NW/4, NW/4), Section 6, Township 17 South and Range 37 East in Lea County, New Mexico. The geodetic position is 32.86899° north and -103.29661° west.

The leak occurred on May 22, 2010, after a fusion weld on a 2-inch poly flow line failed and released approximately 50 barrels (bbls) of produced water. The fluids pooled near the source of the leak and flowed along the east side of a lease road for about 350 feet before terminating. Samson recovered approximately 40 bbls of produced water that was returned to a tank battery located west of the leak. Approximately 10 bbl of produced water was lost to the surface. Soil samples collected near the source did not reveal total petroleum hydrocarbons (TPH) above the method detection limit.

On June 14, 2010, Samson contracted Banta Oilfield Services, Inc. (Banta) to excavate soil from the area. At approximately 2-3 feet below ground surface (bgs) caliche was encountered and prevented further excavation using a backhoe. Additional soil was excavated from 4 to 8 feet bgs using a track hoe and hammer hoe.

On June 14, 2010, LAI personnel collected discreet samples from 1 foot bgs from twelve locations (SS-1 through SS-12). The samples were submitted to Xenco Laboratory, located in Odessa, Texas and analyzed for chloride using method 300. The laboratory reported chloride concentrations between 897 milligrams per kilogram (mg/Kg) in sample SS-1 to 11,600 mg/Kg from SS-7. LAI personnel collected additional samples on June 18 and 23, 2010, from the bottom of the excavation between 5 and 8 feet bgs. Chloride concentrations ranged from 31 mg/Kg (SS-1) to 448 mg/Kg (SS-5). Sidewall samples were collected near locations SS-1, SS-6 and SS-9, and chloride concentrations were reported between 32 and 80 mg/Kg.

The OCD in Hobbs, New Mexico, granted verbal approval on June 24, 2010, to fill the excavation. The excavation was filled on June 25 and 28, 2010, with soil from a borrow area that was tested and reported chloride at 122 mg/Kg.

June 28, 2010

2.0 Introduction

This report is submitted to the New Mexico Oil Conservation Division (OCD) on behalf of Samson Resources Company (Samson) by Larson & Associates, Inc. (LAI), its consultant, to present the remediation of a leak that occurred on May 22, 2010. The leak occurred about 200 feet south of the Lovington Paddock Unit Well #118, API # 30-025-31275, in Unit D (NW/4, NW/4), Section 6, Township 17 South and Range 37 East in Lea County, New Mexico. The leak was attributed to failure of a fusion weld on the 2-inch poly flow due to incompatible material (SDR-7 v SDR-11) after the line was previously cut by heavy equipment. The geodetic position is 32.86899° north and -103.29661° west. A topographic map is presented in Figure 1. An aerial map is presented in Figure 2.

3.0 Chronology

On May 22, 2010, Samson notified the OCD that a leak had occurred on the flow line where the line had been repaired after being struck by heavy equipment on July 31, 2008. Samson repaired the leak and notified the OCD District 1 office in Hobbs, New Mexico, that the spill involved approximately 50 barrels (bbl) of produced water. Approximately 40 bbl of water was recovered and returned to a tank battery and about 10 bbl lost to the surface. Fluid pooled near the source and flowed south about 350 feet along the east side of the lease road before terminating. Samson submitted the initial C-141 on May 24, 2010.

4.0 Setting

The setting is as follows:

- Groundwater occurs at about 75 feet below ground surface based on records from the New Mexico State Engineer (NMSE);
- The release is within the City of Lovington well field;
- No continuously flowing watercourse is within 1,000 horizontal feet of the release;
- No surface water features, including lakes, rivers, ponds, arroyos, lakebed, sinkhole, or playa lake, are located within 1,000 horizontal feet of the release; and
- No private, domestic fresh-water well or spring are within 500 horizontal feet of release.

5.0 Remediation

On June 14, 2010, Samson contracted Banta Oilfield Services, Inc. (Banta) to excavate soil from the release area. Soil was excavated to approximately 2-3 feet bgs where caliche was encountered and prohibited further excavation with a backhoe. Banta mobilized a track and hammer hoe on June 15, 2010 and resumed excavating soil between 4 and 8 feet bgs. The soil was disposed at Sundance Services located east of Eunice, New Mexico.

On June 14, 2010, LAI personnel collected twelve discreet samples (SS-1 through SS-12) from the bottom of the excavation at about 1 foot bgs. The samples were submitted under chain of custody to Xenco Laboratories (formerly Environmental Labs of Texas) located in Odessa, Texas. The samples were analyzed for chloride using method 300. The chloride results ranged from 897 mg/Kg in sample SS-1 to 11,600 mg/Kg in sample SS-7.

1RP-2553 Caylor Injection Line Remediation Report Samson Resources Lea County, New Mexico

June 28, 2010

On June 18 and 23, 2010, LAI personnel collected samples between 5 and 8 feet bgs which reported chloride concentrations between 32 mg/Kg for sample SS-1 to 448 mg/Kg in sample SS-5. Sidewall samples were collected near locations SS-1, SS-6 and SS-9, which reported chloride concentrations between 32 and 80 mg/Kg. Analytical laboratory reports are presented in Appendix A.

6.0 Closure

On June 24, 2010, Mr. Larry Johnson with the OCD District 1, granted verbal permission to fill the excavation. The excavation was filled with soil obtained from a nearby borrow area that was tested and reported chloride at 122 mg/Kg. The excavation was filled on June 25 and 28, 2010. Photographic documentation is presented in Appendix B. Appendix C presents the initial and final C 141.

Table 1 Summary of Soil Laboratory Analyses Samson Resources C. S. Caylor Leak Lea County, New Mexico 1RP-2553

Location	Depth	Date	Status	Chloride
RRAL:				250
SS-1	1	6/14/2010	Excavated	897
	5	6/23/2010	Insitu	32
SS-2	1	6/14/2010	Excavated	1,830
		6/23/2010	Insitu	64
SS-3	1	6/14/2010	Excavated	2,210
	5	6/23/2010	Insitu	48
SS-4	1	6/14/2010	Excavated	1,920
	5	6/23/2010	Insitu	80
SS-5	1	6/14/2010	Excavated	2,020
	5	6/23/2010	Insitu	448
				- Parkagang and Parkagan and Andrews and Parkagan and Andrews Andrews Andrews Andrews Andrews Andrews Andrews
SS-6	1	6/14/2010	Excavated	2,220
	8	6/23/2010	Insitu	64
SS-7	1	6/14/2010	Excavated	11,600
	5	6/23/2010	Insitu	32
SS-8	1	6/14/2010	Excavated	2,160
	5	6/21/2010	Insitu	160
SS-9	1	6/14/2010	Excavated	2,680
	3	6/18/2010	Excavated	400
:	5	6/21/2010	Insitu	80
SS-10	1	6/14/2010	Excavated	2,110
	5	6/18/2010	Insitu	176
SS-11	1	6/14/2010	Excavated	1,460
	5	6/18/2010	Insitu	16
SS-12	1	6/14/2010	Excavated	2,220
	5	6/21/2010	Excavated	256
	6	6/23/2010	Insitu	112

Table 1 Summary of Soil Laboratory Analyses Samson Resources C. S. Caylor Leak Lea County, New Mexico

1RP-2553

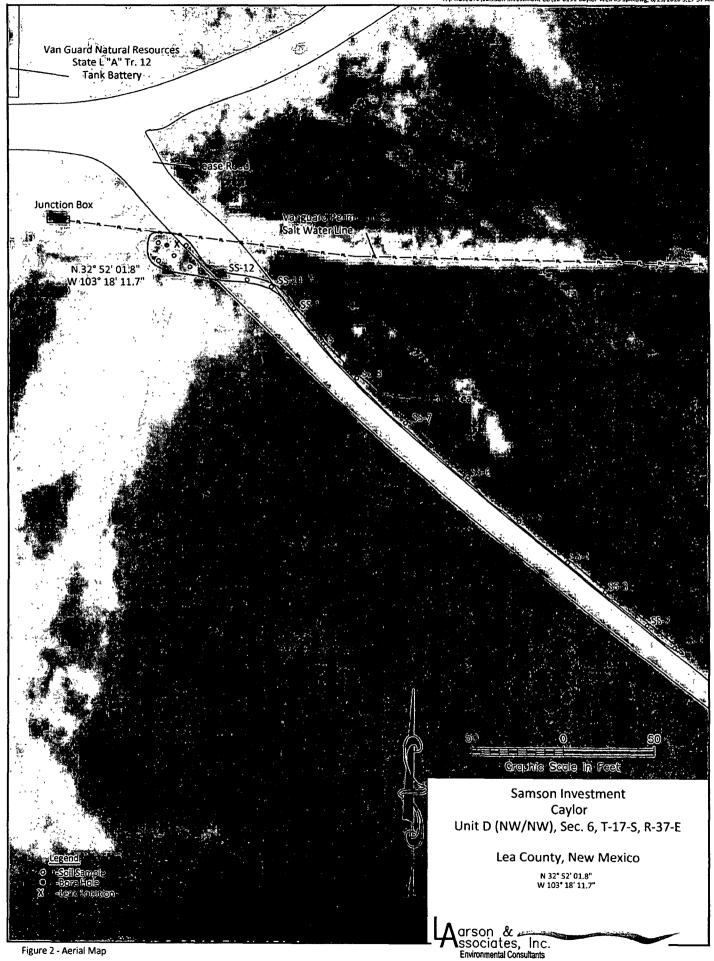
Location	Depth	Date	Status	Chloride
RRAL:				250
	Sic	de Walls		
SW-1 East		6/23/2010	Insitu	32
SW-1 West		6/23/2010	Insitu	80
SW-6 East		6/23/2010	Insitu	48
SW-6 West		6/23/2010	Insitu	32
SW-9 East		6/23/2010	Insitu	80
SW-9 West		6/23/2010	Insitu	48
		Backfill .		,
Backfill		6/15/2010	Insitu	122

Notes

Depth measurements are in feet.

All concentrations are in milligrams per kilogram (mg/Kg, parts per million).

Blue and Bold indicates the value exceeds the RRAL Cleanup Level.



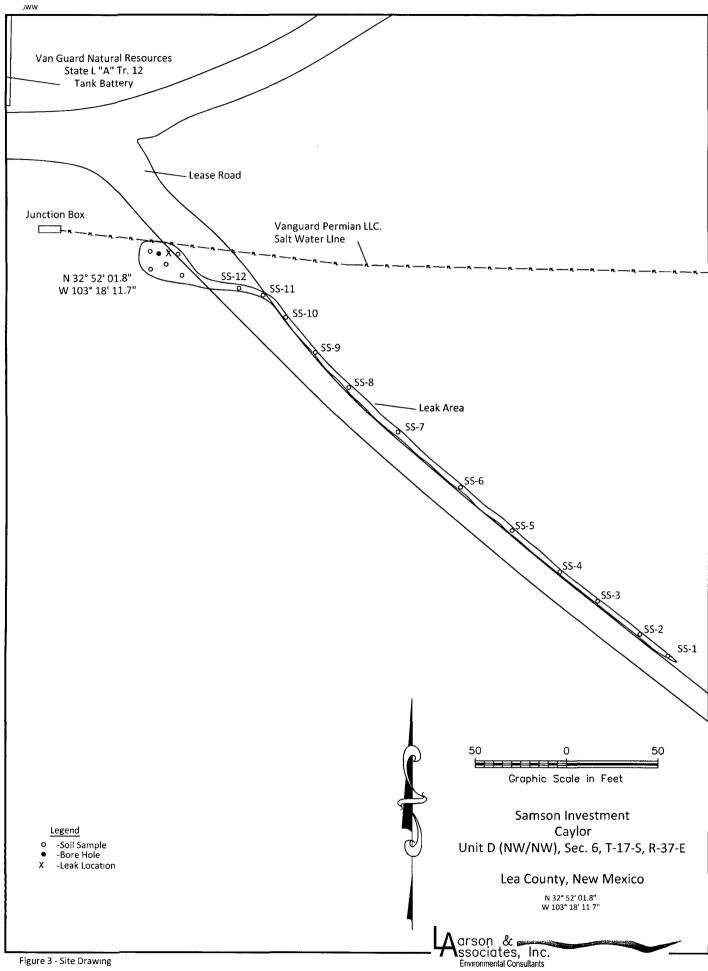


Figure 3 - Site Drawing

Analytical Report 377138

for

Larson & Associates

Project Manager: Michelle Green

Midland Odessa Standard List of prices 10-0112

16-JUN-10





12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AAL11), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295)





16-JUN-10

Project Manager: Michelle Green

Larson & Associates P.O. Box 50685 Midland, TX 79710

Reference: XENCO Report No: 377138

Midland Odessa Standard List of prices

Project Address:

Michelle Green:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 377138. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 377138 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America



Sample Cross Reference 377138



Larson & Associates, Midland, TX

Midland Odessa Standard List of prices

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS-1 (1')	S	Jun-14-10 13:00		377138-001
SS-2 (1')	S	Jun-14-10 13:20		377138-002
SS-3 (1')	S	Jun-14-10 13:30		377138-003
SS-4 (1')	S	Jun-14-10 13:55		377138-004
SS-5 (1')	S	Jun-14-10 14:10		377138-005
SS-6 (1')	S	Jun-14-10 14:35		377138-006
SS-7 (1')	S	Jun-14-10 14:50		377138-007
SS-8 (1')	S	Jun-14-10 15:00		377138-008
SS-9 (1')	S	Jun-14-10 15:25		377138-009
SS-10 (1')	S	Jun-14-10 15:43		377138-010
SS-11 (1')	S	Jun-14-10 16:05		377138-011

CASE NARRATIVE



Client Name: Larson & Associates

Project Name: Midland Odessa Standard List of prices



Project ID: 10-0112 Work Order Number: 377138 Report Date: 16-JUN-10 Date Received: 06/15/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-810798 Percent Moisture

None

Batch: LBA-810903 Inorganic Anions by EPA 300

None

Final Ver. 1.000



Project Id: 10-0112

Certificate of Analysis Summary 377138

Larson & Associates, Midland, TX

Project Name: Midland Odessa Standard List of prices

Date Received in Lab: Tue Jun-15-10 08:40 am

Contact: Michelle Green

Project Location:

Report Date: 16-JUN-10

Project Manager: Brent Barron, II

	Lab Id:	377138-0	01	377138-0	02	377138-0	03	377138-0	04	377138-0	05	377138-0	06
Analysis Paggastad	Field Id:	SS-1 (1	')	SS-2 (1')	SS-3 (1 ¹)	SS-4 (1')	SS-5 (1 ¹	')	SS-6 (1')
Analysis Requested	Depth:								1				
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-14-10 1	3 00	Jun-14-10 1	3 20	Jun-14-10 1	3 30	Jun-14-10 1	3 55	Jun-14-10 1	4 10	Jun-14-10 1	4 35
Anions by E300	Extracted:												
	Analyzed:	Jun-16-10 ()8 46	Jun-16-10 0	8 46	Jun-16-10 0	8 46	Jun-16-10 0	8 46	Jun-16-10 (8 46	Jun-16-10 0	8 46
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL .	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		897	178	1830	46 1	2210	45 5	1920	47 9	2020	476	2220	47 5
Percent Moisture	Extracted:					•							
	.Analyzed:	Jun-15-10	14 30	Jun-15-10 1	4 30	Jun-15-10 1	4 30	Jun-15-10 1	4 30	Jun-15-10 1	14 30	Jun-15-10 1	4 30
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		5 46	1 00	8 98	1 00	7 60	1 00	12 4	1 00	118	1 00	11 5	1 00

Page 5 of 12

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our hability is limited to the amount involved for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Final Ver. 1 000

Brent Barron, II Odessa Laboratory Manager



Project Location:

Project Id: 10-0112

Contact: Michelle Green

Certificate of Analysis Summary 377138

Larson & Associates, Midland, TX

Project Name: Midland Odessa Standard List of prices

Date Received in Lab: Tue Jun-15-10 08:40 am

Report Date: 16-JUN-10

								Project Mai	iager.	Brent Barron,	11	
	Lab Id:	377138-0	07	377138-0	08	377138-0	09	377138-0	10	377138-0	11	
Analysis Requested	Field Id:	SS-7 (1	')	SS-8 (1')	SS-9 (1')	SS-10 (1	')	SS-11 (1	')	i
Analysis Requested	Depth:											
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		
	Sampled:	Jun-14-10 1	4 50	Jun-14-10 1	5 00	Jun-14-10 1	5 25	Jun-14-10 1	5 43	Jun-14-10 1	6 05	
Anions by E300	Extracted:											
	Analyzed:	Jun-16-10 ()8 46	Jun-16-10 0	8 46	Jun-16-10 0	8 46	Jun-16-10 0	18 46	Jun-16-10 0	8 46	
	Units/RL:	mg/kg	RL.	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		11600	183	2160	45 9	2680	47 0	2110	47 1	1460	23 1	<u> </u>
Percent Moisture	Extracted:											
	.4nalyzed:	Jun-15-10	14 30	Jun-15-10 1	4 30	Jun-15-10 1	4 30	Jun-15-10 1	4 30	Jun-15-10 1	4 30	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	l
Percent Moisture		8 23	1 00	8 47	1 00	10 6	1 00	10 8	1 00	9 28	1 00	

Odessa Laboratory Manager



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- **BRL** Below Reporting Limit.
- **RL** Reporting Limit
- MDL Method Detection Limit
- PQL Practical Quantitation Limit
- * Outside XENCO's scope of NELAC Accreditation.

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5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



BS / BSD Recoveries



Project Name: Midland Odessa Standard List of prices

Work Order #: 377138 Analyst: LATCOR

Date Prepared: 06/16/2010

Project ID: 10-0112 **Date Analyzed:** 06/16/2010

Lab Batch ID: 810903

Sample: 810903-1-BKS Batch #: 1

Matrix: Solid

Units: mg/kg		BLAN	K/BLANK S	SPIKE / E	BLANK S	PIKE DUPL	ICATE	RECOVE	ERY STUD	Y	
Anions by E300	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Chloride	ND	10 0	10 2	102	10	10 1	101	1	75-125	20	

Relative Percent Difference RPD = 200*[(C-F)/(C+F)] Blank Spike Recovery [D] = 100*(C)/[B] Blank Spike Duplicate Recovery [G] = 100*(F)/[E] All results are based on MDL and Validated for QC Purposes

Final Ver. 1 000



Form 3 - MS Recoveries



Project Name: Midland Odessa Standard List of prices

Work Order #: 377138

Lab Batch #: 810903

Project ID: 10-0112

Date Analyzed: 06/16/2010

Date Prepared: 06/16/2010

Analyst: LATCOR

QC-Sample ID: 376805-001 S

Batch #:

Matrix: Soil

Reporting Units: mg/kg	MATI	RIX / MA	TRIX SPIKE	RECOV	VERY STU	DY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	229	236	508	118	75-125	

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference [E] = 200*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Sample Duplicate Recovery



Project Name: Midland Odessa Standard List of prices

Work Order #: 377138

Lab Batch #: 810903 Date Analyzed: 06/16/2010 **Project ID:** 10-0112

Date Prepared: 06/16/2010

Date I repared.

Analyst: LATCOR

QC-Sample ID: 376805-001 D

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg	SAMPLE /	SAMPLE / SAMPLE DUPLICATE RECOVERY									
Anions by E300	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag						
Analyte		[B]									
Chloride	229	200	14	20							

Lab Batch #: 810798

Date Analyzed: 06/15/2010

Date Prepared: 06/15/2010

Analyst: JLG

QC- Sample ID: 377062-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE/SAMPLE DUPLICATE RECOVERY

Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	1 31	1 19	10	20	



2300 Double Creek Drive • Round Rock, TX 78664 Phone (512) 388-8222 • FAX (512) 388-8229

№ 43611 CHAIN-OF-CUSTODY

CLIENT: Larson ADDRESS:	Associa	les I	nć						_]																F	PAGEOF1
PHONE: 432 68	7 090	FAX	<u> </u>						-										DHL	WO	RK	ORI	DEF	₹:		
DATA REPORTED TO:									_	PR	IOJE	CTL	OCA	TIO	NO	RN	AME	<u>:</u> :					-			× 1/1/2.
ADDITIONAL REPORT	COPIES TO:	1	Green						_	CL	JENT	PR	SJEC	T#	- 1	0^	· ව	ILI	7		_	COI	LLE	CTC	DR:	Don Mobinini
Authorize 5% surcharge for TRRP report?	S=SOIL W≄WATER A≃AIR	P=PAINT SL=SLUDG OT=OTHER	- 1	ΙF	PRES							/		(8°)	7/				[\$\ \$\ \$							
☐Yes ☐ No	37	7138		Containers		NeOHC		XERVED		<i>\$/.</i>																
Field Sample I.D.	DHL Lab # Date	Time M	Container atrix Type	# of Co	S S	H,30,C	핑	CNPRE	PROPERTY.														(\$) 			FIELD NOTES
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55-3 (1)	103	1330					V									\neg	T		T		Γ	abla				
55-4 (1)	04	1355					П			П							\top					\				
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55-6 (1')	-06	1435		\prod												\Box	T	Τ	T		1	\				
55-7(11)	07	1450														Т	\top	T		T	T '	~				
55-8(i')	D8	1500					\coprod					T				Ι						1				
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	O DHL DI	POSAL @ \$	5.00 each C	Rett.	ım							OTI	ER I	<u> </u>			1) H/	ND	DEI	LIVE	REL				



XENCO Laboratories

Atlanta, Boca Raton. Corpus Christi. Dallas Houston, Miami, Odessa. Philadelphia

Phoenix, San Antonio, Tampa

Document Title. Sample Receipt Checklist.

Document No.: SYS-SRC

Revision/Date: No. 01, 5/27/2010

Effective Date: 6/1/2010 Page 1 of 1

40.03 24.03

Prelogin / Nonconformance Report - Sample Log-In

client: Larson & Associates				
Date/Time: 06-15-10 @ 0840				
Lab ID#: 377138				
Initials: JME				
Sample Receipt Che	ecklist			
1. Samples on ice?	Blue	Water	No	
2. Shipping container in good condition?	Yes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	(N/A)	
4. Chain of Custody present?	Yes	No		
5. Sample instructions complete on chain of custody?	(Yes)	No		
6. Any missing / extra samples?	Yes	(No)		
7. Chain of custody signed when relinquished / received?	Yes	No		
8. Chain of custody agrees with sample label(s)?	(Ves)	No		
9. Container labels legible and intact?	Yes	No		
10. Sample matrix / properties agree with chain of custody?	Yes	No	<u> </u>	
11. Samples in proper container / bottle?	Tes	No		
12. Samples properly preserved?	Ves	No	N/A	
13. Sample container intact?	Yes	No		
14. Sufficient sample amount for indicated test(s)?	(Dec)	No		
15. All samples received within sufficient hold time?	Yes	No		
16. Subcontract of sample(s)?	Yes	(No)	NA	
17. VOC sample have zero head space?	Yes	No	NA	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 No	·	Cooler 5 No.	
ibs 3.6 °C lbs °C lbs	°C lbs	°C	lbs	۰,
Nonconformance Docur	mentation			
Contact: Contacted by:		Date/Time:		
		D200 11c		
Regarding:				
Corrective Action Taken:			, <u>, , , , , , , , , , , , , , , , , , </u>	
		······································		
Check all that apply: Cooling process has begun shortly after sample	ling event and o	ut of temper	rature	

Final Ver. 1.000

condition acceptable by NELAC 5.5.8.3.1.a.1.

☐ Client understands and would like to proceed with analysis

□ Initial and Backup Temperature confirm out of temperature conditions

Analytical Report 377208

for

Larson & Associates

Project Manager: Mark Larson

Samson - Caylor 10-0112

16-JUN-10





12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

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Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295)





16-JUN-10

Project Manager: Mark Larson Larson & Associates

P.O. Box 50685 Midland, TX 79710

Reference: XENCO Report No: 377208

Samson - Caylor

Project Address: Lea Co., MN

Mark Larson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 377208. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 377208 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 377208



Larson & Associates, Midland, TX

Samson - Caylor

Sample IdMatrixDate CollectedSample DepthLab Sample IdBackfillSJun-15-10 10:20377208-001





Client Name: Larson & Associates Project Name: Samson - Caylor



Project ID: 10-0112 Work Order Number: 377208 Report Date: 16-JUN-10 Date Received: 06/15/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-810806 Percent Moisture

None

Batch: LBA-810903 Inorganic Anions by EPA 300

None



Contact: Mark Larson

Project Location: Lea Co., MN

Certificate of Analysis Summary 377208

Larson & Associates, Midland, TX

Project Name: Samson - Caylor



Project Id: 10-0112

Date Received in Lab: Tue Jun-15-10 03:15 pm

Report Date: 16-JUN-10 Project Manager: Brent Barron, II

			1 Tojett Wanager. Brent Barron, tr
	Lab 1d:	377208-001	
Analysis Requested	Field Id:	Backfill	
Anatysis Kequestea	Depth:		
	Matrix:	SOIL	
	Sampled:	Jun-15-10 10 20	
Anions by E300	Extracted:		
	Analyzed:	Jun-16-10 08 46	
	Units/RL:	mg/kg RL	
Chloride		122 4 37	
Percent Moisture	Extracted:		
	.Analyzed:	Jun-16-10 08 19	
	Units/RL:	% RL	
Percent Moisture		3 82 1 00	

This analytical report, and the entire data package it represents has been made for your exclusive and confidential use The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented Our hability is limited to the amount invoiced for this work order unless otherwise agreed to in writing

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Odessa Laboratory Manager



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte.

 The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- **BRL** Below Reporting Limit.
- **RL** Reporting Limit
- MDL Method Detection Limit
- **PQL** Practical Quantitation Limit
- * Outside XENCO's scope of NELAC Accreditation.

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842 Cantwell Lane, Cornus Christi, TX 78408	(361) 884-0371	(361) 884-9116



BS / BSD Recoveries



Project Name: Samson - Caylor

Work Order #: 377208

Analyst: LATCOR Date Prepared: 06/16/2010

Project ID: 10-0112 **Date Analyzed:** 06/16/2010

Lab Batch ID: 810903

Sample: 810903-1-BKS

Matrix: Solid

Units: mg/kg	BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Batch #: 1

Anions by E300 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	ND	10 0	10 2	102	10	10 1	101	1	75-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: Samson - Caylor



Work Order #: 377208

Lab Batch #: 810903

- 06/46/0010

Project ID: 10-0112

Analyst: LATCOR

QC- Sample ID: 376805-001 S

Batch #:

Matrix: Soil

Reporting Units: mg/kg	MATRIX / MATRIX SPIKE RECOVERY STUDY									
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag				
Chloride	229	236	508	118	75-125					

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference [E] = 200*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Sample Duplicate Recovery



Project Name: Samson - Caylor

Work Order #: 377208

Lab Batch #: 810903 Project ID: 10-0112

 Date Analyzed:
 06/16/2010
 Date Prepared:
 06/16/2010
 Analyst:
 LATCOR

 QC- Sample ID:
 376805-001 D
 Batch #:
 1
 Matrix:
 Soil

Reporting Units: mg/kg	SAMPLE	SAMPLE/SAMPLE DUPLICATE RECOVERY								
Anions by E300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag					
Analyte		1~1								
Chloride	229	200	14	20						

Lab Batch #: 810806

 Date Analyzed:
 06/16/2010
 Date Prepared:
 06/16/2010
 Analyst:
 JLG

 QC- Sample ID:
 377167-001 D
 Batch #:
 1
 Matrix:
 Soil

Reporting Units: %	SAMPLE/SAMPLE DUPLICATE RECOVERY									
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag					
Analyte		[B]								
Percent Moisture	3 58	3.48	3	20						

Final Ver. 1.000

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*

Xenco	La	ho	ra	to	riae
AGNCO	La	00	16.	CO	1162

The Environmental Lab of Texas	12600 West I Odessa, Texa		one: 432-563-1800 ax: 432-563-1713
	arson	Project Name: Sam	von-Caylon
Company Name	1550 ciotes, Inc. rienfeld St., Ste Zoo	Project #: 10	-0112
Company Address: 507 N. To	rianfald St, Ste Zox		Co., NM
City/State/Zip: Midlerd, T		PO #:	
Telephone No: (432) 687-0901	Fax No: (432) 6	7-0456 Report Format: Stands	ard TRRP NPDES
Sampler Signature:	e-mail: Marke	Jaenvironmontal. com	S Analyze For:
(lab use only)		TCLP TOTAL	THE STATE OF
ORDER#: 377208	Preservation &		27.
LAB# (lab use only) LAB# (lab use only) LAB# (lab use only)	Date Sampled Co. Time Sampled Total #. of Containers Kos HNO3 HG	NaCH NaCH 1948	Vokatiles Semivolatiles BTEX 8021B/5030 or BTEX 8260 RCI N.O.R.W. Chichdo RUSH TAT (Pre-schedule) 24.4
		- - - - - - - - - - - - - 	╁┼┼┼┼┼┼┼╂┟╴
Special Instructions:		Laboratory Co Sample Confide VOCs Free of I	omments: Headspace? on container(s)
Relinquished by: Relinquished by. Relinquished by. Date Time Relinquished by. Date Time	Received by: Received by: Received by ELOT:	Date Time Labels Child Custody seals Cuetody seals Date Time Sample Hand Date	Delivered N /Citient Rep. 2 N
	andrea Jam	4.15.10 15:15 Temperature U	per Receipt: 1/. C °C



XENCO Laboratories

Atlanta, Boca Raton, Corpus Christi Dalles
Houston, Miami, Odessa, Philadelphia
Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist

Document No.: SYS-SRC

Revision/Date: No. 01, 5/27/2010

Effective Date: 6/1/2010 Page 1 of 1

· 1

Prelogin / Nonconformance Report - Sample Log-In

Client: \arso	m & Assoc.					
Date/Time: 6.	5.10 15:15					
Lab ID#:	377208					
Initials:	AL					
	S	ample Receipt Check	dist			
1. Samples on ice?			Blue	(Water)	No	
2. Shipping container in good condition?			(Yes)	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?			Yes	No	N/A)	
4. Chain of Custody present?			Yes	No		
5. Sample instructions complete on chain of custody?			Yes	No		
6. Any missing / extra samples?			Yes	(No)		
7. Chain of custody signed when relinquished / received?			(Yes)	No		
8. Chain of custody agrees with sample label(s)?			(Yes)	No		
9. Container labels legible and intact?			(Yes)	No		
10. Sample matrix / properties agree with chain of custody?			(Yes)	No		
11. Samples in proper container / bottle?			(Yes)	No		
12. Samples properly preserved?			Yes	No	N/A	
13. Sample container intact?			Yes	No		
14. Sufficient sample amount for indicated test(s)?			Yes	No		
15. All samples received within sufficient hold time?			Yes	No		
16. Subcontract of sample(s)?			. Yes	No	(N/A)	
17. VOC sample have zero head space?			Yes	No	NIA	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.			Cooler 4 No)	Cooler 5 No.	
ibs U.S	°C lbs °C	lbs °C	lbs	°C	lbs	℃
	Nonc	onformance Docume	ntation			
Contact:Contacted by:Date/Time:						
Regarding:						
Corrective Action Take	en:					
Check all that apply: Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1. Initial and Backup Temperature confirm out of temperature conditions Client understands and would like to proceed with analysis						

Analytical Report 377224

for

Larson & Associates

Project Manager: Michelle Green

Midland Odessa Standard List of prices 10-0112

16-JUN-10





12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AAL11), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295)





16-JUN-10

Project Manager: Michelle Green

Larson & Associates P.O. Box 50685 Midland, TX 79710

Reference: XENCO Report No: 377224

Midland Odessa Standard List of prices

Project Address:

Michelle Green:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 377224. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 377224 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 377224



Larson & Associates, Midland, TX

Midland Odessa Standard List of prices

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS-12 (1')	S	Jun-15-10 08:50		377224-001
SS-13 (1')	S	Jun-15-10 11:10		377224-002





Client Name: Larson & Associates

Project Name: Midland Odessa Standard List of prices



Project ID: 10-0112 Work Order Number: 377224 Report Date: 16-JUN-10 Date Received: 06/15/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-810866 Percent Moisture

None

Batch: LBA-810903 Inorganic Anions by EPA 300

None



Project Location:

Certificate of Analysis Summary 377224

Larson & Associates, Midland, TX



Project Id: 10-0112

Contact: Michelle Green

Project Name: Midland Odessa Standard List of prices

Date Received in Lab: Tue Jun-15-10 04.50 pm

Report Date: 16-JUN-10

Project Manager: Brent Barron, II

	Lab Id:	377224-001	377224-002		
Analysis Requested	Field Id:	SS-12 (1')	SS-13 (1')		
Analysis Requesieu	Depth:				
	Matrix:	SOIL	SOIL		
	Sampled:	Jun-15-10 08 50	Jun-15-10 11 10		
Anions by E300	Extracted:				
	Analyzed:	Jun-16-10 08 46	Jun-16-10 08 46		
	Units/RL:	mg/kg RL	mg/kg RL		
Chloride		2220 46 4	3090 46 8		
Percent Moisture	Extracted:				
	Analyzed:	Jun-16-10 12 22	Jun-16-10 12 22		
	Units/RL:	% RL	% RL		
Percent Moisture		9 53 1 00	10 3 1 00		

This analytical report, and the entire data package it represents has been made for your exclusive and confidential use The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing

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Odessa Laboratory Manager

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Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- **BRL** Below Reporting Limit.
- **RL** Reporting Limit
- MDL Method Detection Limit
- PQL Practical Quantitation Limit
- * Outside XENCO's scope of NELAC Accreditation.

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5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116

Page 6 of 11 Final Ver. 1.000



BS / BSD Recoveries



Project Name: Midland Odessa Standard List of prices

Work Order #: 377224

Analyst: LATCOR Date Prepared: 06/16/2010

Project ID: 10-0112

Date Analyzed: 06/16/2010

Lab Batch 1D: 810903

Sample: 810903-1-BKS Batch #: 1

Matrix: Solid

Units: mg/kg		BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Anions by E300 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag	
Chloride	ND	10 0	10 2	102	10	10 1	101	1	75-125	20		

Relative Percent Difference RPD = 200*[(C-F)/(C+F)]
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

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Form 3 - MS Recoveries



Project Name: Midland Odessa Standard List of prices

Work Order #: 377224

Lab Batch #: 810903 **Date Analyzed:** 06/16/2010

Date Prepared: 06/16/2010

Project ID: 10-0112

Analyst: LATCOR

QC-Sample ID: 376805-001 S

Batch #: Matrix: Soil MATRIX / MATRIX SPIKE RECOVERY STUDY

Reporting Units: mg/kg	MATRIX / MATRIX SPIKE RECOVERY STUDY												
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag							
Analytes													
Chloride	229	236	508	118	75-125								

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference [E] = 200*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Sample Duplicate Recovery



Project Name: Midland Odessa Standard List of prices

Work Order #: 377224

Lab Batch #: 810903

Project ID: 10-0112

Date Prepared: 06/16/2010

Analyst: LATCOR

Date Analyzed: 06/16/2010 **QC- Sample ID:** 376805-001 D

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Parent Sample Result	Sample Duplicate	RPD	Control Limits	Flag

1	Parent Sample Result [A]	Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Chloride	229	200	14	20	

Lab Batch #: 810866

Date Analyzed: 06/16/2010

Date Prepared: 06/16/2010 Batch #: 1

Analyst: JLG

QC-Sample ID: 377317-001 D

Matrix: Soil

Reporting Units: %

			_			
SA	MPLE	/ SAMP	LE	DUPLICATI	REC	COVERY

Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	7 23	6 68	8	20	

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Field Sample I.D.	Lab#	Date	MST Time	Matrix	# of Containers	를 달	HNO3	H ₂ SO, □	핑	UNPRE	6	NA!	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \						10) 8/10 8/10	8/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\					8					/	<u>/</u>		.D N	OTES	}
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XENCO Laboratories

Atlanta, Boca Raton. Corpus Christi. Dallas Houston, Mlami, Odessa. Philadelphia Phoenix, San Antonio, Tampa Document Title: Sample Receipt Checklist

Document No.: SYS-SRC

Revision/Date: No. 01, 5/27/2010

Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Larson 5	Associate	ς				
Date/Time: 06-15-1						
Lab ID#:	377224					
Initials: JMC						
		Sample Receipt Ch	necklist			
1. Samples on ice?			Blue !	(Water)	No	
2. Shipping container in	good condition?		Yes	No	None	
3. Custody seals intact of	n shipping contain	Yes Yes	. No	(NA)		
4. Chain of Custody pres	ent?	Ves	No			
5. Sample instructions c	omplete on chain c	of custody?	Yes	No		
6. Any missing / extra sa	mples?		Yes	(No)		
7. Chain of custody sign	ed when relinquish	ned / received?	Yes	No		
8. Chain of custody agre	es with sample lab	el(s)?	Yes	No		
9. Container labels legib	le and intact?		Yes	No		
10. Sample matrix / prop	erties agree with c	hain of custody?	(Yes)	No		
11. Samples in proper co	ontainer / bottle?		(Yes)	No		
12. Samples properly pri	eserved?		Yes	No	N/A	
13. Sample container int	act?		(Ces	No		
14. Sufficient sample am	ount for Indicated	test(s)?	(Yes)	No		
15. All samples received	within sufficient h	old time?	Yes	No		
16. Subcontract of samp	le(s)?		Yes	No	N/A	
17. VOC sample have ze	ro head space?		Yes	No	(N/A	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No	١.	Cooler 5 No.	
1bs 2.6 °C	Ibs	°C lbs	°C lbs	°C	lbs	°C
Contact:		Nonconformance Doc		Dete #III.		
Contact	Contac	ted by		Date/Time:_	·	
Regarding:						
Corrective Action Taken	:					
Check all that apply:		nas begun shortly after sam		ut of temper	ature	

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☐ Client understands and would like to proceed with analysis

□Initial and Backup Temperature confirm out of temperature conditions

Analytical Report 377603

for

Larson & Associates

Project Manager: Michelle Green

Midland Odessa Standard List of prices 10-0112

21-JUN-10





12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)





21-JUN-10

Project Manager: Michelle Green

Larson & Associates P.O. Box 50685 Midland, TX 79710

Reference: XENCO Report No: 377603

Midland Odessa Standard List of prices

Project Address:

Michelle Green:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 377603. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 377603 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 377603



Larson & Associates, Midland, TX

Midland Odessa Standard List of prices

Jun-16-10 12:30

Sample Id

SS-13 (5')

Matrix Date Collected

S

Sample Depth

Lab Sample Id

377603-001

CASE NARRATIVE



Client Name: Larson & Associates
Project Name: Midland Odessa Standard List of prices



 Project ID:
 10-0112
 Report Date:
 21-JUN-10

 Work Order Number:
 377603
 Date Received:
 06/17/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-811074 Percent Moisture

None

Batch: LBA-811425 Inorganic Anions by EPA 300

None

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Project Location:

Certificate of Analysis Summary 377603

Larson & Associates, Midland, TX



Project Id: 10-0112

Project Name: Midland Odessa Standard List of prices

Contact: Michelle Green

Date Received in Lab: Thu Jun-17-10 10:55 am

Report Date: 21-JUN-10
Project Manager: Brent Barron II

			Project Manager: Brent Barron, II
	Lab Id:	377603-001	
Analysis Requested	Field Id:	SS-13 (5')	
Analysis Requested	Depth:		
	Matrix:	SOIL	
	Sampled:	Jun-16-10 12 30	
Anions by E300	Extracted:		
	Analyzed:	Jun-18-10 10 48	
	Units/RL:	mg/kg RL	
Chloride		413 9 52	
Percent Moisture	Extracted:		
	Analyzed:	Jun-17-10 15 05	
	Units/RL:	% RL	
Percent Moisture		118 100	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Breht Barron, II Odessa Laboratory Manager

Page 5 of 11



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte.

 The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- **BRL** Below Reporting Limit.
- **RL** Reporting Limit
- MDL Method Detection Limit
- **PQL** Practical Quantitation Limit
- * Outside XENCO's scope of NELAC Accreditation.

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5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



BS / BSD Recoveries



Project Name: Midland Odessa Standard List of prices

Work Order #: 377603

Date Prepared: 06/18/2010 Batch #: 1

Project ID: 10-0112 Date Analyzed: 06/18/2010

Analyst: LATCOR Lab Batch ID: 811425

Sample: 811425-1-BKS

Matrix: Solid

Units: mg/kg		BLAN	K/BLANK S	SPIKE / E	BLANK S	PIKE DUPL	JICATE I	RECOVE	CRY STUD	'Y	
Anions by E300	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Chloride	ND	10 0	9 96	100	10	9 96	100	0	75-125	20	

Relative Percent Difference RPD = 200*[(C-F)/(C+F)]Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries



Project Name: Midland Odessa Standard List of prices

Work Order #: 377603

Lab Batch #: 811425 Date Analyzed: 06/18/2010

Date Prepared: 06/18/2010

Project ID: 10-0112

Analyst: LATCOR

QC-Sample ID: 377603-001 S

Batch #:

Matrix: Soil

Reporting Units: mg/kg	MATI	KIX / MA	TRIX SPIKE	RECO	VERY STU	IJΥ
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result C	%R [D]	Control Limits %R	Flag
Analytes	[A]	{B}	[0]	(-)	/ / /	
Chloride	413	227	648	104	75-125	

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference [E] = 200*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Sample Duplicate Recovery



Project Name: Midland Odessa Standard List of prices

Work Order #: 377603

Lab Batch #: 811425

Project ID: 10-0112

Date Prepared: 06/18/2010

Analyst: LATCOR

Date Analyzed: 06/18/2010 **QC- Sample ID:** 377603-001 D

Anions by E300

Analyte

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

SAMPLE	SAMPLE	DUFLIC	ATE REC	UVER
Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag

439

Lab Batch #: 811074 **Date Analyzed:** 06/17/2010

Date Prepared: 06/17/2010

413

Analyst: JLG

QC- Sample ID: 377573-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

Chloride

SAMPLE / SAMPLE DUPLICATE RECOVERY

	Parent Sample Result [A]	Sample Duplicate Result B	RPD	Control Limits %RPD	Flag
Analyte]	[2]			
Percent Moisture	19.0	19 0	0	20	

(三の機能が、) Page 10 of 11

Final Ver 1.000



XENCO Laboratories

Atlanta, Boca Raton, Corous Christi Dallas Houston, Miami, Odessa, Philadelphia Phoenix, San Antonio, Tampa Document Title: Sample Receipt Checklist

Document No.: SYS-SRC

Revision/Date: No. 01, 5/27/2010

Effective Date: 6/1/2010 Page 1 of 1

120

4

Prelogin / Nonconformance Report - Sample Log-In

A A -	ort - Sample	e Log-III		
client: Layson & Assoc.				
Date/Time: 6.17.10 /0:55				
Lab ID#: 377(003				
Initials: AL				
Sample Receipt Che	ecklist			
1. Samples on ice?	Blue	Water	(No)	1
2. Shipping container in good condition?	Yes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	(N/A)	
4. Chain of Custody present?	Yes	No		
5. Sample instructions complete on chain of custody?	Yes	No		
6. Any missing / extra samples?	Yes	(No)		
7. Chain of custody signed when relinquished / received?	(Yés)	No		
8. Chain of custody agrees with sample label(s)?	Yes	No		
9. Container labels legible and intact?	(Yes)	No		
10. Sample matrix / properties agree with chain of custody?	(es)	No_		
11. Samples in proper container / bottle?	Yes	No		
12. Samples properly preserved?	(Yes)	No	N/A	
13. Sample container intact?	(Ye	No		
14. Sufficient sample amount for indicated test(s)?	Yes	No		
15. All samples received within sufficient hold time?	(Yes)	No		
16. Subcontract of sample(s)?	Yes	No	(N/A)	
17. VOC sample have zero head space?	Yes	No	(N/A)	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 No		Cooler 5 No.	
ibs /B. oc ibs oc ibs	°C lbs	°င	lbs	°c
Nonconformance Docu	mentation			
Contact: Contacted by:		Date/Time:_		
Regarding:				
Corrective Action Taken:				
Check all that apply: Cooling process has begun shortly after samp	ling event and or	st of temper	rature	

Final Ver. 1.000

condition acceptable by NELAC 5.5.8.3.1.a.1.

Client understands and would like to proceed with analysis

☐ Initial and Backup Temperature confirm out of temperature conditions



June 21, 2010

Michelle Green Larson & Associates, Inc. 507 North Marienfeld, Suite 202 Midland, TX 79701

Re: 10-0112

Enclosed are the results of analyses for sample number H20165, received by the laboratory on 06/18/10 at 3:25 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005 Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.2 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Celey D. Keene

Sincerely

Laboratory Director



ANALYTICAL RESULTS FOR LARSON & ASSOCIATES. INC. ATTN: MICHELLE GREEN 507 N. MARIENFELD, STE. 200 MIDLAND, TX 79701

Receiving Date: 06/18/10
Reporting Date: 06/18/10
Project Owner: NOT GIVEN

Project Location: NOT GIVEN

Project Location: NOT GIVEN

Analysis Date: 06/18/10 Sampling Date: 06/18/10 Sample Type: SOIL

Sample Condition: INTACT @ 16°C

Sample Received By: JH

Analyzed By: HM

	CI ⁻
LAB NUMBEI SAMPLE ID	(mg/kg)
H20165-1 SS-11 (5')	16
H20165-2 SS-10 (5')	176
H20165-3 SS-9 (3')	400
Quality Control	500
True Value QC	500
% Recovery	100
Relative Percent Difference	< 0.1

METHOD: Standard Methods 4500-Cl'B

Note: Analyses performed on 1:4 w:v aqueous extracts.

´Chemişt

Date

H20165 Larson & Associates, Inc.

CHAIN-OF-CUSTODY

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ANALYTICAL RESULTS FOR LARSON & ASSOCIATES, INC. ATTN: MICHELLE GREEN 507 N. MARIENFELD, STE. 200 MIDLAND, TX 79701

Receiving Date: 06/21/10

Reporting Date: 06/22/10

Project Number: 10-0112

Analysis Date: 06/22/10

Sampling Date: 06/21/10

Sample Type: SOIL

Project Name: NOT GIVEN Sample Condition: COOL & INTACT @ 5.5°C

Project Location: NOT GIVEN Sample Received By: JH

Analyzed By: HM

CIT LAB NUMBEI SAMPLE ID (mg/kg)

(iiig/kg)
256
80
160
490
500
98.0
3.8

METHOD: Standard Methods 4500-CIB

Note: Analyses performed on 1:4 w:v aqueous extracts.

Date

06/22/10

H20174 Larson & Associates, Inc.

CHAIN-OF-CUSTODY

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TRRP report? Yes No TIME ZONE:	S=SOIL W=WATE A=AIR	P=PA R SL=S				PRE	ESEF	,			•													\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				7//	<i> </i>
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June 24, 2010

Michelle Green Larson & Associates, Inc. 507 North Marienfeld, Suite 202 Midland, TX 79701

Re: 10-0112

Enclosed are the results of analyses for sample number H20192, received by the laboratory on 06/23/10 at 3:40 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.2

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely

Celey D. Keene

Laboratory Director



ANALYTICAL RESULTS FOR LARSON & ASSOCIATES, INC. ATTN: MICHELLE GREEN 507 N. MARIENFELD, STE. 200 MIDLAND, TX 79701

Receiving Date: 06/23/10

Reporting Date: 06/24/10

Project Number: 10-0112

Analysis Date: 06/24/10

Sampling Date: 06/23/10

Sample Type: SOIL

Project Name: SAMSON Sample Condition: INTACT @ 38°C

Project Location: SAMSON Sample Received By: JH

Analyzed By: HM

100

6.5

CI SAMPLE ID LAB NUMBER (mg/kg) H20192-1 SS-4 (5') 80 H20192-2 SS-3 (5') 48 32 H20192-3 SS-7 (5') H20192-4 SS-5 (5') 448 H20192-5 32 SS-1 (5') SS-2 (5') H20192-6 64 H20192-7 SS-6 (8') 64 32 H20192-8 SW-1 E SW-1 W H20192-9 80 H20192-10 SW-6 E 48 H20192-11 SW-6 W 32 H20192-12 SW-9 E 80 **SW-9 W** 48 H20192-13 112 H20192-14 SS-12 (6') H20192-15 SS-13 (6') 352 **Quality Control** 500 500 True Value QC

METHOD: Standard Methods 4500-Cl'B

Note: Analyses performed on 1:4 w:v aqueous extracts.

Chemist/

Date

H20192 Larson & Associates, Inc.

% Recovery

Relative Percent Difference

CHAIN-OF-CUSTODY

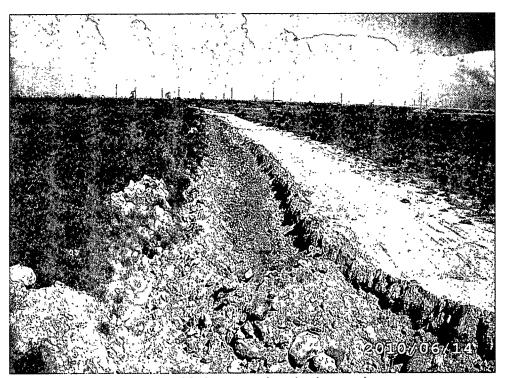
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May 22, 2010 - Leak area viewing south.



June 3, 2010 - Leak area viewing north.

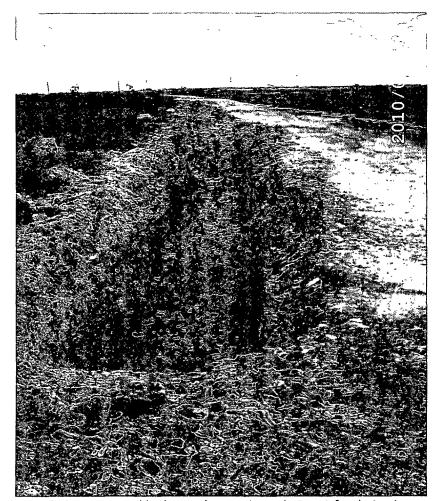


June 14, 2010 - excavation viewing south.



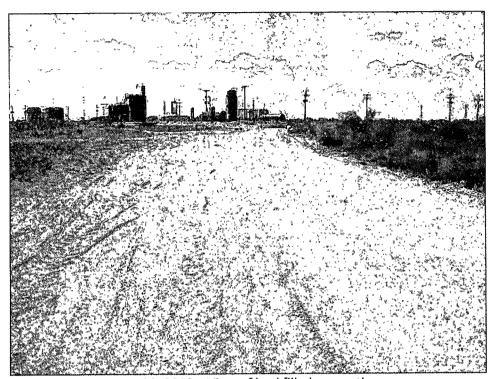
June 15, 2010 - Excavated leak location viewing south.

1RP-2553 Remediation Report Produced Water Flow Line Leak Samson Resources – C.S. Caylor Lease Lea County, New Mexico



June 18, 2010 - Excavated leak area (approximately 5 to 8 feet) viewing south.

1RP-2553 Remediation Report Produced Water Flow Line Leak Samson Resources – C.S. Caylor Lease Lea County, New Mexico



June 28, 2010 – View of backfilled excavation.