		PLWJ1019733289				
		2586				
, · · ·	2	010-055				
1625 N. French Dr., Hobbs, NM 88240	New Mexico RE and Natural Resources	CENCE Porm C-141				
1301 W. Grand Avenue, Artesia, NM 88210						
1000 Rio Brazos Road, Aztec, NM 37410	St. Francis Dr.	Submit 2 Copies to appropriate District Office in accordance				
	e, NM 87505 HOE	BISOCO side of form				
Release Notification	and Corrective Action	· · · · ·				
		al Report 🛛 Final Report				
	Contact Curt Stanley	,				
	Telephone No. 575-390-7595 Facility Type Natural Gas Pipeline					
Surface Owner Woolworth Estate Mineral Owner		No. 30-025-38822				
	NOF RELEASE South Line Feet from the East/West Line	10				
Unit Letter Section Township Range Feet from the North/ "O" 31 24S 37E	South Line Feet from the East/West Line	County L c a				
Latitude N 32 degrees 01.212	'Longitude W 103 degrees 11.978'	• •				
	OF RELEASE					
Type of Release Crude Oil and Produced Water Source of Release 6-Inch Steel Pipeline		Recovered 5 BBLS Hour of Discovery				
		2010, 1100 hrs				
Was Immediate Notice Given?	If YES, To Whom?					
X Yes D No X Not Required	Larry Johnson, NMOCD Hobbs District Office					
By Whom? Curt Stanley Was a Watercourse Reached?	Date and Hour July 15, 2010, 0920 hrs If YES, Volume Impacting the Watercourse.					
· Yes X No	in 123, volume impacting the watercourse.					
If a Watercourse was Impacted, Describe Fully.*	I	· · · · · · · · · · · · · · · · · · ·				
Describe Cause of Problem and Remedial Action Taken.* During pipeline change-out activities, crude oil and produced water were a	eleased into a pipeline trench. A vacuum truck re	ecovered free fluids and an				
onsite backhoe was used to immediately excavate the saturated soil, stock						
Describe Area Affected and Cleanup Action Taken.*						
A pipeline trench measuring approximately 60 linear feet was affected by the area of impact was delineated. The release site was excavated and appr	the release. During initial response activities saturately 408 cubic vards of impacted soil was	urated soil was excavated and				
disposal. Soil samples were collected from the sidewalls and floor of the e	xcavation and analyzed by the laboratory. Based	on the analytical results and				
with NMOCD approval, the excavation was backfilled with locally purcha	sed non-impacted soil.					
I hereby certify that the information given above is true and complete to the						
regulations all operators are required to report and/or file certain release no public health or the environment. The acceptance of a C-141 report by the	otifications and perform corrective actions for rel	eases which may endanger				
should their operations have failed to adequately investigate and remediate	contamination that pose a threat to ground water	r, surface water, human health				
or the environment. In addition, NMOCD acceptance of a C-141 report do						
federal, state, or local laws and/or regulations.	OIL CONSERVATION	DIVISION				
	OIL CONSERVATION					
Signature: UND. Surly	Approved by District Supervisor:					
Printed Name: Curt D. Stanley	Approved by District Supervisor: Storff	instation				
	Approval Date: 64 15 11 Expiration	Date:				
	- 1					
E-mail Address: curt.stanley@sug.com	Conditions of Approval:	Attached 🗋				
Date: April 15, 2011 Phone: 575-390-7595		IRP-10-7-2586				
* Attach Additional Sheets If Necessary		<u> </u>				

DEL	2	2	20	15
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Basin Environmental Service Technologies, LLC

3100 Plains Highway P. O. Box 301 Lovington, New Mexico 88260 bjarguijo@basinenv.com Office: (575) 396-2378 Fax: (575) 396-1429

Effective Solutions

REMEDIATION SUMMARY

AND -

SITE CLOSURE REQUEST

SOUTHERN UNION GAS SERVICES Line 2B (2010-055) Lea County, New Mexico Unit Letter "O" (SW/SE), Section 31, Township 24 South, Range 37 East Latitude 32° 10.212' North, Longitude 103° 11.978' West NMOCD Reference # 1RP-2586

Prepared For:

Southern Union Gas Services 801 S. Loop 464 Monahans, TX 79756

Prepared By: Basin Environmental Service Technologies, LLC

March 2011

Ben J. Arguijo

Project Manager

1.0 INTRODUCTION

Basin Environmental Service Technologies, LLC (Basin), on behalf of Southern Union Gas Services (Southern Union), has prepared this "Remediation Summary and Site Closure Request" for the release site known as Line 2B. The legal description of the release site is Unit Letter "O" (SW/SE), Section 31, Township 24 South, Range 37 East, in Lea County, New Mexico. The geographic coordinates of the release site are 32° 10.212' North latitude and 103° 11.978' West longitude. The property affected by the release is owned by the Woolworth Trust. A "Site Location Map" is provided as Figure 1.

On July 14, 2010, a release occurred during the replacement of a section of Southern Union's six (6)-inch "Line 2B" steel pipeline. The release was reported to the New Mexico Oil Conservation Division (NMOCD) Hobbs District Office on July 15, 2010. The "Release Notification and Corrective Action" (Form C-141) indicated approximately eight (8) barrels of crude oil and produced water was released, affecting a pipeline trench measuring approximately sixty (60) linear feet in length. During initial response activities, a vacuum truck was utilized to recover approximately six (6) barrels of free fluids, the area of impact was delineated, and the release site was excavated. General photographs of the site are provided as Appendix B. The "Release Notification and Corrective Action" (Form C-141) is provided as Appendix C.

On August 8, 2010, a previous consultant collected six (6) soil samples (Floor East; Floor West; West, West Wall; West, East Wall; West, North Wall; and West, South Wall) from the floor and sidewalls of the excavation. The soil samples were submitted to Xenco Laboratories (Odessa, TX) for analysis of benzene, toluene, ethyl-benzene, and xylenes (BTEX), total petroleum hydrocarbon (TPH), and/or chloride concentrations using EPA Method SW-846 8021b, EPA Method SW-846 8015M, and EPA Method 300.1, respectively.

Laboratory analytical results indicated benzene concentrations were less than the laboratory method detection limit (MDL) for all soil samples submitted. BTEX concentrations ranged from less than the laboratory MDL for soil samples Floor East; Floor West; and West, South Wall to 86.56 mg/Kg for soil sample West, West Wall. TPH concentrations ranged from 136 mg/Kg for soil sample Floor East to 22,690 for soil sample West, West Wall. Chloride concentrations ranged less than the laboratory MDL for soil sample Floor East; West, West Wall. Chloride concentrations ranged less than the laboratory MDL for soil samples Floor East; West, West Wall; and West, South Wall to 161 mg/Kg for soil sample Floor West. Table 1 summarizes the "Concentrations of Benzene, BTEX, TPH & Chlorides in Soil". Laboratory analytical reports are provided as . Appendix A.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicated depth to groundwater information was unavailable for Section 31, Township 24 South, Range 37 East. A depth to groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately fifty (50) feet below ground surface (bgs). Based on the NMOCD ranking system, twenty (20) points will be assigned to the site as a result of this criterion.

A search of the NMWRRS database indicated there are no water wells within 1,000 feet of the release. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

There are no surface water bodies within 1,000 feet of the release. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

NMOCD guidelines indicate the Line 2B release site has a ranking score of twenty (20). The soil remediation levels for a site with a ranking score of twenty (20) points are as follows:

- Benzene 10 mg/kg (ppm)
- BTEX 50 mg/kg (ppm)
- TPH 100 mg/kg (ppm)

The New Mexico Administrative Code (NMAC) does not currently specify a remediation level for chloride concentrations in soil. Chloride remediation levels are set by the NMOCD on a site-specific basis.

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On December 14, 2010, remediation activities began at the site. Impacted soil from the initial response activities was stockpiled on-site pending final disposition. Hach Quantab Chloride Low Range (30-600 mg/Kg) Titrators were used to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The excavation was divided into two sections: "East" and "West".

On December 16 through 21, 2010, excavation of hydrocarbon-impacted soil commenced at the site. Approximately two hundred and forty (240) cubic yards (cy) of impacted soil was excavated from the "West" excavation and transported to Sundance Services, Inc. ("Sundance", NMOCD Permit # NM-01003), for disposal. Approximately fifty-six (56) cy of stockpiled material was transported to Sundance from the "East" excavation.

On December 21, 2010, seven (7) soil samples (East Floor, East Wall, Middle Floor, South Wall, North Wall, West Floor, and West Wall) were collected from the floor and sidewalls of the excavation and submitted to Xenco Laboratories (Odessa, TX) for analysis of benzene, toluene, ethyl-benzene, and xylenes (BTEX), total petroleum hydrocarbon (TPH), and/or chloride concentrations using EPA Method SW-846 8021b, EPA Method SW-846 8015M, and EPA Method 300.1, respectively.

Laboratory analytical results indicated benzene and BTEX concentrations were less than the appropriate laboratory (MDL) for all soil samples submitted. TPH concentrations ranged from less than the laboratory MDL for soil samples East Wall, Middle Floor, South Wall, North Wall, West Floor, and West Wall to 20.4 mg/Kg for soil sample East Floor. Chloride concentrations ranged from 9.55 mg/Kg for soil sample West Floor to 58.3 mg/Kg for soil sample East Floor. A "Site & Sample Location Map" is provided as Figure 2.

On December 21, 2010, Southern Union requested and received NMOCD approval to leave soil represented by soil sample Floor East in place.

On December 23, 2010, through January 3, 2011, approximately four hundred and eight (408) cy of stockpiled material was transported from the West excavation to Sundance for disposal.

Based on laboratory analytical results, and with NMOCD approval, on January 3 and 4, 2011, the excavation was backfilled in eighteen (18)-inch lifts, compacted, and contoured to fit the surrounding topography. Prior to backfilling, the final dimensions of the East excavation were approximately forty (40) feet in length, approximately eight (8) feet in width, and approximately six (6) feet in depth. The West excavation measured approximately thirty-four (34) feet in length, approximately thirty-six (36) feet in width, and ranging in depth from approximately eight (8) feet to approximately fifteen (15) feet.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil samples were delivered to Xenco Laboratories, Inc., of Odessa, Texas, for BTEX, TPH, and/or chloride analyses using the methods described below. Soil samples were analyzed for BTEX, TPH, and/or chloride concentrations within fourteen (14) days following the collection date.

The soil samples were analyzed as follows:

- BTEX concentrations in accordance with EPA Method SW-846 8021b
- TPH concentrations in accordance with modified EPA Method SW-846 8015M
- Chloride concentrations in accordance with EPA Method 300.1

4.2 Decontamination of Equipment

Cleaning of the sampling equipment was the responsibility of the environmental technician. Prior to use, and between each sample, the sampling equipment was cleaned with Liqui-Nox® detergent and rinsed with distilled water.

4.3 Laboratory Protocol

The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody form(s). These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

5.0 SITE CLOSURE REQUEST

Soil samples collected from the floors and sidewalls of the Line 2B "East" and "West" excavations were analyzed by an NMOCD approved laboratory, and concentrations of Benzene, BTEX, TPH, and chloride were less than the remediation action levels established for the site. Based on these analytical results, Basin recommends Southern Union provide the NMOCD Hobbs District Office a copy of this "Remediation Summary and Site Closure Request" and request the NMOCD grant site closure to the Line 2B release site.

6.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary and Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Basin has not conducted an independent examination of the facts contained in referenced materials and statements. Basin has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Basin has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

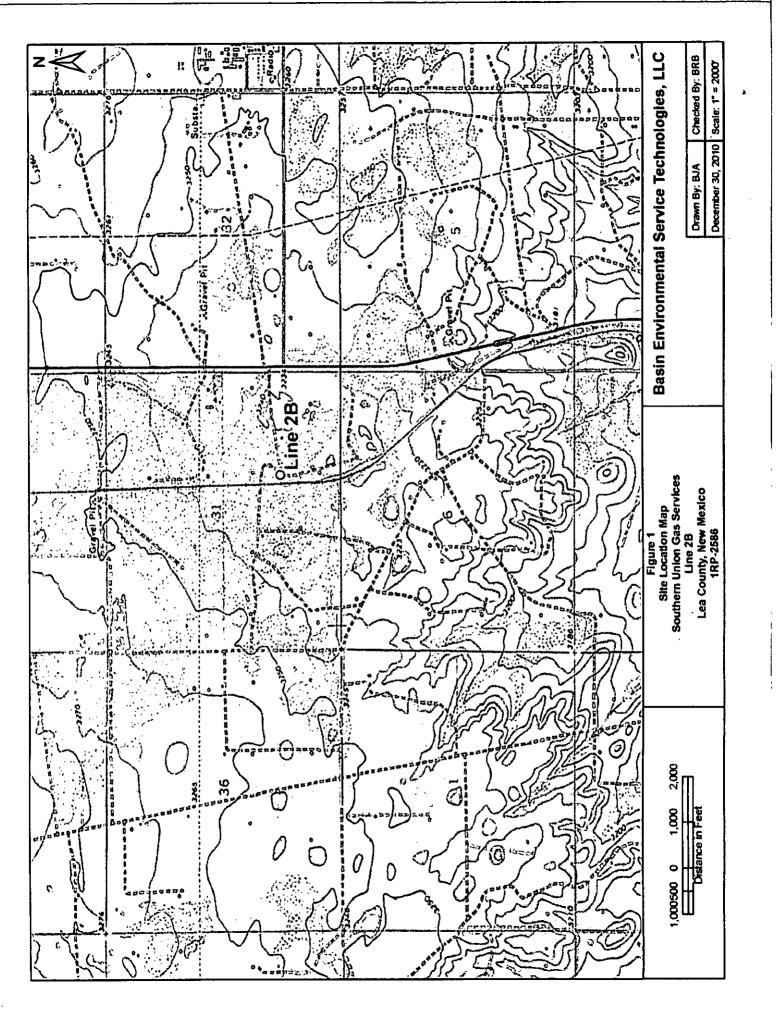
This report has been prepared for the benefit of Southern Union Gas Services. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Basin Environmental Service Technologies, LLC, and/or Southern Union Gas Services.

7.0 **DISTRIBUTION:**

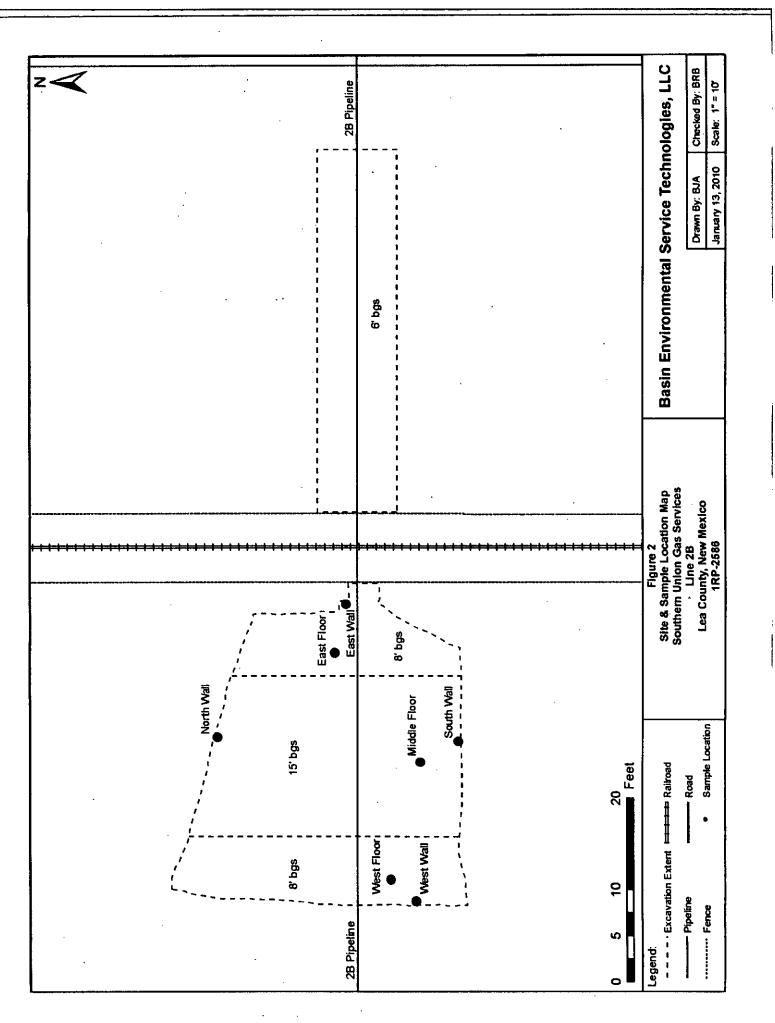
Copy 1: Geoffrey Leking New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division (District 1) 1625 French Drive Hobbs, New Mexico 88240 GeoffreyR.Leking@state.nm.us

Copy 2: Rose Slade Southern Union Gas Services 801 S. Loop 464 Monahans, Texas 79756 rose.slade@sug.com

Copy 3: Basin Environmental Service Technologies, LLC P.O. Box 301 Lovington, New Mexico 88260 bjarguijo@basinenv.com



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TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDES IN SOIL

SOUTHERN UNION GAS SERVICES LINE 2B LEA COUNTY, NEW MEXICO PROJECT #: 2010-055 NMOCD REFERENCE NO: 1RP-2586

					MET	METHOD: EPA SW-846 8021B	V-846 8021B			NETHOD:	METHOD: EPA SW-846 8015M	46 8015M	TOTAL	E 300.1
	SAMPLE	SAMPLE	SOIL	DENJCAL	TOLLENE	ETHYL.	M.P	ò	TOTAL	GRO	DRO	oro	Hatt	-
		DATE	STATUS			BENZENE	XYLENES	XYLENE	BTEX	C ² -C ¹³	C12-C22	C28-C36	Cr CB	CHLORIDE
-	(cool			Rumin	(By/Sub)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Floor East	.9	8/4/2010	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.6	136	<15.6	136	c4.37
Floor West	6'	8/4/2010	Excavated	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.6	998	<15.8	966	181
West, West Wall	6'	8/4/2010	8/4/2010 Excavated	<1.072	7.721	16.58	48.05	14.21	86.56	8,090	14,600	<800	22,690	<4.5
West, East Wall	6,	8/4/2010	In-Situ	<0.0052	<0.0103	0.0114	0.0334	0.0212	0.0660	62.2	123	<15.4	185	13,4
West, North Wall	5 0	8/4/2010	Excavated	<0.0010	0.0028	0.0016	0.0039	0.0015	0.0058	<155	1,230	<155	1,230	35.0
West, South Wall	6	8/4/2010	Excavated	<0.0010	40.0021	<0.0010	<0.0021	<0.0010	<0.0021	<154	2,070	<154	2,070	-8.6 3
East Floor	8'	12/21/10	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<18.3	20.4	<16.3	20.4	56.3
East Wall	8'	12/21/10	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	11.1
Middle Floor	15'	12/21/10	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.8	<15.6	<15.6	<15.6	11.3
South Wall	15'	12/21/10	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.4	<15.4	<15.4	<15.4	10.1
North Wall	15'	12/21/10	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<16.0	<16.0	<18.0	<18.0	24.8
West Floor	8'	12/21/10	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<16.3	<16.3	<18.3	<18.3	9.55
West Wall	8'	12/21/10	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<18.1	<16.1	<16.1	<16.1	10.2
										•		1		-
												Í		

Page 1 of 1

Analytical Report 384421

for

Eco-Logical Environmental

Project Manager: Scott Springer

Line 2B

18-AUG-10



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-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)



18-AUG-10



Project Manager: Scott Springer Eco-Logical Environmental 2200 Market Street Midland, TX 79703

Reference: XENCO Report No: 384421 Line 2B Project Address:

Scott Springer:

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 384421. 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. 384421 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 384421



Eco-Logical Environmental, Midland, TX

Line 2B

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Floor East	S	Aug-04-10 00:00	6 ft	384421-001
Floor West	S	Aug-04-10 00:00	6 ft	384421-002
West, West Wall	S	Aug-04-10 00:00	6 ft	384421-003
West, East Wall	· S	Aug-04-10 00:00	6 ft	384421-004
West, North Wall	· S	Aug-04-10 00:00	6 ft	384421-005
West, South Wall	S	Aug-04-10 00:00	6 ft	384421-006

CASE NARRATIVE



Client Name: Eco-Logical Environmental Project Name: Line 2B



Project ID: Work Order Number: 384421 Report Date: 18-AUG-10 Date Received: 08/05/2010

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-817728 Percent Moisture None

Batch: LBA-817881 TPH By SW8015 Mod None

Batch: LBA-818183 Anions by E300 None

Batch: LBA-818482 BTEX by EPA 8021B None

Batch: LBA-818700 BTEX by EPA 8021B SW8021BM

Batch 818700, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 384421-003. 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 384421-004,384421-003.

Batch: LBA-819177 SVOA STAR List by SW-846 8270C SW8270C

Batch 819177, 2,4,6-Tribromophenol, 2-Fluorophenol recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 384421-003. Nitrobenzene-d5 recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 384421-003.

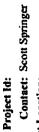
Dilution run due to failing internal standard responses at lower dilutions

Fina) 1.000



Certificate of Analysis Summary 384421 Eco-Logical Environmental, Midland, TX





Date Received in Lab: Thu Aug-05-10 11:25 am Report Date: 18-AUG-10

Project I acation.					Report Date: 18-AUG-10	18-AUG-10	
					Project Manager: Brent Barron, II	Brent Barron , II	-
	Lab Id:	384421-001	384421-002	384421-003	384421-004	384421-005	384421-006
Contraction Descent	Field Id:	Floor East	Floor West	West, West Wall	West, East Wall	West, North Wall	West, South Wall
naisanbay sistinut	Depth:	6- A	6- A	6- A	6- A	¢.	6~ # .
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Aug-04-10 00:00	Aug-04-10 00:00	Aug-04-10 00:00	Aug-04-10 00:00	Aug-04-10 00:00	Aug-04-10 00:00
Anions by E300	Extracted:						
	Amatyzadi	Aug-09-10 17:57	Aug-09-10 17:57	Aug-09-10 17:57	Aug-09-10 17:57	Aug-09-10 17:57	Aug-09-10 17:57
	Umits/RL:	tmg/kg RL	mg∕kg RL	mg/kg RL	ung/kg RL	mg/kg RL	mg/kg RL
Chloride		ND 4.37	161 8.96	ND 4.50	13.4 4.33	35.0 17.4	ND 8.63
BTEX by EPA 8021B	Extracted:	Aug-10-10 08:00	Aug-10-10 08:00	Aug-12-10 14:30	Aug-12-10 14:30	Aug-10-10 08:00	Aug-10-10 08:00
	A mainted:	Aug-10-10 12:30	Aug-10-10 14:02	Aug-12-10 23:08	Aug-12-10 21:11	Aug-10-10 14:49	Aug-10-10 15:12
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	ng/kg RL	mg/kg RL
Benzene		01000 QN	1100'0 GN	ND 1.072	ND 0.0052	010070 GN	ND 0.0010
Tolucne		ND 0.0021	ND 0.0021	7.721 2.145	C010.0 CN	0.0028 0.0021	ND 0.0021
Ethylbenzene		ND 0.0010	ND 0.0011	16.58 1.072	0.0114 0.0052	0.0016 0.0010	ND 0.0010
m,p-Xylenes		ND 0.0021	ND 0.0021	48.05 2.145	0.0334 0.0103	0.0039 0.0021	ND 0.0021
o-Xylene		0100'0 QN	1100'0 GN	14.21 1.072	0.0212 0.0052	0100'0 \$100'0	0100.0 UN
Total Xykmes		0100-0 UN	1100:0 GN	62.26 1.072	0.0546 0.0052	0.0054 0.0010	0100:0 GN
Total BTEX		010070 QN	1100'0 GN	86.56 1.072	0.0660 0.0052	010070 860070	ND 0.0010
							-

Houston - Dallas - San Artonio - Atlanta - Tampa - Boca Raton - Latin America - Odesta - Corpus Christi

This serifyical report, and the entitier data package it represents, has been made for your exclusive and confidential use. The interpretations and reading compared throughout this analytic insport reported the best pagement of XENCO Laboratories SENCO Laboratories assumes to responsibility and ratios no warranty to do cad use of the data hearly presented. Our liability is litrained to the streament invoiced for this work order waters otherwise agreed to its strike.

Odessa Laboratory Manager Brefit Barron, II

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Final 1 000

Page 5 of 25

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W is	
N 3	

Contact: Scott Springer

Project Id:

Certificate of Analysis Summary 384421 Eco-Logical Environmental, Midland, TX Project Name: Line 2B



Date Received in Lab: Thu Aug-05-10 11:25 am Renort Date: 18-AUG-10

Project Location:					Report Date: 18-AUG-10	18-AUG-10	
					Project Manager:	Brent Barron, Il	
	.77 gor	384421-001	384421-002	384421-003	384421-004	384421-005	384421-006
Americ Descend	Field Id:	Floor East	Floor West	West, West Wall	West, East Wall	West, North Wall	West, South Wall
naicanhau ciclimiu	Depth:	6 A	6- A	6- A	é- N	6- 1 9	6- #
	Matrix:	NIOS	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Aug-04-10 00:00	Aug-04-10 00:00	Aug-04-10 00:00	Aug-04-10 00:00	Аид-04-10 00:00	Aug-04-10 00:00
SVOA PAHs List by EPA 8270C	Extracted:			Aug-13-10 12:50			
SUB: T104704215-TX	Analyzed:			Aug-17-10 13:47			
	Unic/RL:			og/kg RL			
Accuaplithene				ND 8.92			
Accuaphthylene				ND 8.92			
Anthracene				ND 8.92			
Benzo(a)anthracene				ND 8.92			
Benzo(a)pyrene				ND 8.92			
Benzo(b)fluoranthene				ND 8.92			
Benzo(g,h,i)perylene				ND 8.92			
Benzo(k)fluoranthene				ND 8.92			
Chrysene				ND 8.92			
Dibenz(a,b)Anthracene				ND 8.92			
Fluoranthene	_			ND 8.92			
Fluorene	-			ND 8.92			
Indeno(1,2,3-c,d)Pyrene				ND 8.92			
2-Methylmaptithalene		-		ND 8.92			
1-Methylnaphthalene				ND 8.92			
Naphthalene				· ND 8.92			
Phenaothrene							
Pyrene				ND 8.92			

This emitytical report, and the centire data predcages it represents has been made for your exclusive and confidential use. In statementations and remains expressed throughout this most represent the bas plagment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the cast plagmatic thereby presented. Our litchility is limited to the amount invoiced for this work order teles otherwise agreed to in writing.

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Odessa Laboratory Manager Brefit Barron, II



Certificate of Analysis Summary 384421 Eco-Logical Environmental, Midland, TX Project Name: Line 2B



Contact: Scott Springer **Project Id:**

Report Date: 18-AUG-10

Project Location:					Report Date: 18-AUG-10	18-AUG-10	
					Project Manager: Brent Barron, Il	Brent Barron, Il	
	Lab Id:	384421-001	384421-002	384421-003	384421-004	384421-005	384421-006
America Decreased	Field Id:	Floor East	Floor West	West, West Wall	West, East Wall	West, North Wall	West, South Wall
naisanhay sistemu	Depth:	6- A	6- A	6- A	6- A	6- #	6- A
	Marrix:	SOIL	SOIL	SOIL	TIOS	SOIL	SOIL
	Sampled:	Aug-04-10 00:00	Aug-04-10 00:00	Aug-04-10 00:00	Aug-04-10 00:00	Aug-04-10 00:00	Aug-04-10 00:00
TPH By SW8015 Mod	Extracted:	Aug-06-10 09:30	Aug-06-10 09:30	Аид-06-10 09:30	Aug-06-10 09:30	Aug-06-10 09:30	Aug-06-10 09:30
	A nalyzed:	Aug-06-10 14:01	Aug-06-10 14:21	Aug-06-10 14:42	Aug-06-10 15:02	Aug-06-10 15:22	Aug-06-10 15:43
	Units/RL:	mg/kg RL	, mg/kg RL	, mg/kg RL	ung∕kg RL	ong∕kg RL	mg/kg RL,
C6-C12 Gasoline Range Hydrocarbons		ND 15.6	9.67 UN 79.6	008 0608	62.2 15.4	SSI ON 155	ND 154
C12-C28 Diesel Range Hydrocarbons		136 15.6	9.9T 8998 79.6	14600 800	123 15.4	1230 155	2070 154
C28-C35 Oil Range Hydrocarbons		ND 15.6	9.67 UN 79.6	008 QN	ND 15.4	ND 155	ND 151
Total TPH		136 15.6	9'62 866 9	22690 800	185 15.4	1230 155	2070 154

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Odessa Laboratory Manager Brefit Barron, II

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Contact: Scott Springer

Project 1d:

Certificate of Analysis Summary 384421 Eco-Logical Environmental, Midland, TX Project Name: Line 2B



Date Received in Lab: Thu Aug-05-10 11:25 am

Report Date: 18-AUG-10 1

Project I acation.					Report Date: 18-AUG-10	IS-AUG-IO	
					Project Manager: Brent Barron, II	Brent Barron, II	
	:PI 427	384421-001	384421-002	384421-003	384421-004	384421-005	384421-006
Laboration Distant	Field Id:	Floor East	Floor West	West West Wall	West, East Wall	West, North Wall	West, South Wall
naiconhau sistinuv	Depth:	6- A	6- A	6- A	6- A	6- A	6- A
	Marrts:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Aug-04-10 00:00	Aug-04-10 00:00	Aug-04-10 00:00	Aug-04-10 00:00	Aug-04-10 00:00	Aug-04-10 00:00
Percent Moisture	Extracted:						
-	Analyzed:	Aug-06-10 08:37	Aug-06-10 08:37	Aug-06-10 08:37	Aug-06-10 08:37	Aug-06-10 08:37	Aug-06-10 08:37
	Under/RL:	% BL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		3.92 1.00	6.25 1.00	6.75 1.00	3.09 1.00	3.57 1.00	2.61 1.00

This sensitytical report, and the centra data package is represents, has been made for your exclusive and confidential use. The interpretations and realist expressed throughout this antisytical report reported the basel presented. Laboratorica: AEWOOL Laboratorica: AEWOOL Laboratorica: AEWOOL Laboratorica: AEWOOL Laboratorica: OR Realistic of the data hereby presented. Our liability is litraied to the amount invoiced for this work onthe roles otherwise agreed to in writing.

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Odessa Laboratory Manager Brefit Barron, 11

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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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Project Name: Line 2B

Work Orders: 384421			Project II			
Lab Batch #: 818482	Sample: 570380-1-BKS / BK			-		
Units: mg/kg	Date Analyzed: 08/10/10 09:37	SU	RROGATE RI	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	· · · · · ·	0.0313	0.0300	104	80-120	
4-Bromofluorobenzene	······································	0.0343	0.0300	114 ·	80-120	,
Lab Batch #: 818482	Sample: 570380-1-BSD / BS	D Batch	h: I Matrix:	;Solid		
Units: mg/kg	Date Analyzed: 08/10/10 10:00	SU	RROGATE RI	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount B]	Recovery %R [D]	Control Limits %R	Fings
1,4-Difluorobenzene		0.0307	0.0300	102	80-120	
4-Bromofluorobenzene		0.0341	0.0300	114	80-120	
Lab Batch #: 818482	Sampte: 570380-1-BLK / BL	.K Batch	n: 1 Matrix:	Solid		
Units: mg/kg	Date Analyzed: 08/10/10 11:34	SUI	RROGATE RE	COVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount B]	Recovery %R (D)	Control Limits %R	Flags
1.4-Difluorobenzene	Analytes	0.0248	0.0300	83	80-120	
4-Bromofluorobenzene		0,0296	0.0300	99	80-120	
Lab Batch #: 818482	Sample: 384421-001 / SMP	Batch	n: I Matrix:	Soil	1	
Units: mg/kg	Date Analyzed: 08/10/10 12:30		RROGATE RE		STUDY	
	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Centrol Limits %R	Flaga
1,4-Difluorobenzene		0.0257	0.0300	86	80-120	
4-Bromofluorobenzene		0.0318	0.0300	106	80-120	
Lab Batch #: 818482	Sample: 384421-001 S / MS	Batch				
Units: mg/kg	Date Analyzed: 08/10/10 12:53	SUI	RROGATE RE	COVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0301	0.0300	100	80-120	
4-Bromofluorobenzene		8070.0	0.0300	103	80-120	

Surrogate outside of Laboratory QC limits
 Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery $[D] = 100 \cdot A / B$ All results are based on MDL and validated for QC purposes.



Project Name: Line 2B

Work Orders : 384421	,		Project II);		
Lab Batch #: 818482	Sample: 384421-001 SD / M					
Units: mg/kg	Date Analyzed: 08/10/10 13:16	SU	RROGATE RE	COVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount B	Recovery %R [D]	* Centrol Limits %R	Flags
1,4-Difluorobenzene	· · · · · · · · · · · · · · · · · · ·	0.0298	0.0300	99	80-120	
4-Bromofluorobenzene		0.0311	0.0300	104	80-120	
Lab Batch #: 818482	Sample: 384421-002 / SMP	Batei	h: Matrix:	Soil		
Units: mg/kg	Date Analyzed: 08/10/10 14:02	SU	RROGATE RE	COVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R {D}	Control Limits %R	Flags
1,4-Difluorobenzene	Charly 65	0.0249	0.0300	83	80-120	
4-Bromofluorobenzene		0.0285	0.0300	95	80-120	· ·
Lab Batch #: 818482	Sample: 384421-005 / SMP	Bate	h: l Matrix:	:Soil	<u> </u>	
Units: mg/kg	Date Analyzed: 08/10/10 14:49		RROGATE RE	COVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount (B)	Recovery %R [D]	Centrol Limits %R	Flags
1,4-Difluorobenzene		0.0276	0.0300	92	80-120	
4-Brumofluorobenzene		0.0246	0.0300	82	80-120	
Lab Batch #: 818482	Sample: 384421-006 / SMP	Batel	h: 1 Matrix:	Soil	<u> </u>	
Units: mg/kg	Date Analyzed: 08/10/10 15:12	SU	RROGATE RE	COVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	Truc Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0,0242	0.0300	81	80-120	
4-Bromofluorobenzene		0.0253	0.0300	84	80-120	
Lab Batch #: 818700	Sample: 570518-1-BKS / BK					
Units: mg/kg	Date Analyzed: 08/12/10 14:42	SU	RROGATE RE	COVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount {B}	Recovery %R {D}	Control Limits %R	Flags
1,4-Difluorobenzene		0.0301	0.0300	100	80-120	
4-Bromofluorobenzene	·	0.0314	0.0300	105	80-120	

Surrogate outside of Laboratory QC limits
 Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B All results are based on MDL and validated for QC purposes.

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Project Name: Line 2B

Vork Orders: 384421			Project II			
Lab Batch #: 818700	Sample: 570518-1-BSD / B			•		
Units: mg/kg	Date Analyzed: 08/12/10 15:06	SU	RROGATE RI	ECOVERY	STUDY	
вте	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R D	Control Limits %R	Flags .
1.4-Difluorobenzene	Anaryus	0.0298	0.0300	99	80-120	
4-Bromofluorobenzene		0.0290	0.0300	.100	80-120	
Lab Batch #: 818700	Sample: 570518-1-BLK / B					
Units: mg/kg	Date Analyzed: 08/12/10 16:16		RROGATE RI		STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0259	0,0300	86	80-120	·····
4-Bromofluorobenzene		0.0309	0.0300	103	80-120	
Lab Batch #: 818700	Sample: 384421-004 / SMF	e Batcl	h: 1 Matrix	: Soil		
Units: mg/kg	Date Analyzed: 08/12/10 21:11	. SU	RROGATE RI	ECOVERY	STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Centrol Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene	· · · · · · · · · · · · · · · · · · ·	0.0252	0,0300	84	80-120	
4-Bromofluorobenzene		0.0408	0,0300	136	80-120	**
Lab Batch #: 818700	Sample: 384421-003 / SMF					
Units: mg/kg	Date Analyzed: 08/12/10 23:08	SU	RROGATE RI	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount Bj	Recovery %R [D]	Centrol Limits %R	Flags
1,4-Difluorobenzene		0.0202	0.0300	67	80-120	
4-Bromofluorobenzene	······	0.0447	0.0300	149	80-120	**

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B All results are based on MDL and validated for QC purposes.



Project Name: Line 2B

ork Orders : 384421 Lab Batch #: 819177	Sample: 570635-1-BLK / B	LK Bate	Project I h: 1 Matrix			
Units: mg/kg	Date Analyzed: 08/17/10 11:49		RROGATE R		STUDY	
SVOA PAF	Is List by EPA 8270C Analytes	Amount Found [A]	True Amount B]	Recovery %R [D]	Centrol Limits %R	Flag
2-Fluorobiphenyl		1,53	1.67	92	30-115	
2-Fluorophenol		1,68	1,67	101	25-121	
Nitrobenzene-d5		1.63	1.67	98	23-120	
Phenol-(16		1,44	1.67	86	24-113	
Terphenyl-D14		1.66	1.67	99	18-137	, <u> </u>
2,4,6-Tribromophenol		1.63	1.67	98	19-122	
Lab Batch #: 819177	Sample: 570635-1-BKS / B	KS Batc	h: 1 Matrix	:Solid		
Units: mg/kg	Date Analyzed: 08/17/10 12:12	SU	RROGATE R	ECOVERY S	STUDY	
SVOA PAF	Is List by EPA 8270C	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
	Analytes		-	[0] _ [0]		
2-Fluorobiphenyl		1.13	1.66	68	30-115	
2-Fluorophenol		1,24	1,66	75	25-121	
Nitrobenzene-d5		1,18	1,66	71	23-120	
Phenol-d6		1.07	1,66	64	24-113	
Terphenyl-D14		1.14	1.66	69	18-137	
2.4.6-Tribromophenol		1.33	1.66	80	19-122	
Lab Batch #: 819177	Sample: 570635-1-BSD / BS					
Units: mg/kg	Date Analyzed: 08/17/10 12:36	SU	RROGATE R	ECOVERYS	STUDY	
SVOA PAH	Is List by EPA 8270C Analytes	Amount Found [A]	True Amouat [B]	Recovery %R [D]	Centrol Limits %R	Flag
2-Fluorobiphenyl		1.38	1.66	83	30-115	
2-Fluorophenol		1.51	1.66	91	25-121	
Nitrobenzene-d5	·····	1,46	1.66	88	23-120	
Phenol-d6		1,32	1.66	80	24-113	
Terphenyl-D14		1.40	1.66	84	18-137	
2,4,6-Tribromophenol		1.67	1,66	101	19-122	

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Surrogate outside of Laboratory QC limits
 Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

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Surrogate Recovery [D] = 100 * A / BAll results are based on MDL and validated for QC purposes.

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Project Name: Line 2B

Vork Orders : 384421 Lab Batch #: 819177	, Sample: 384421-003 / SMP	Batc	Project II b: 1 Matrix:			
Units: mg/kg	Date Analyzed: 08/17/10 13:47		RROGATE RI		STUDY	
SVOA PAI	Is List by EPA 8270C	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl		0.649	1,66	39	30-115	
2-Fluorophenol	•	ND	1.66	0	25-121	
Nitrobenzene-d5		2.60	1.66	157	23-120	***
Phenol-d6		0.649	1.66	39	24-113	
Terphenyl-D14		0,566	1.66	34	18-137	
2,4,6-Tribromophenol	······································	ND	1.6 6	0	19-122	
Lab Batch #: 817881	Sample: 570022-1-BKS/B	KS Bate	h: I Matrix:	Solid		
Units: mg/kg	Date Analyzed: 08/06/10 12:01	SU	RROGATE RI	COVERY	STUDY	
TPH 1	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			D		
I-Chlorooctane		117	99.7	117	70-135	
o-Terphenyt		52.7	49.9	106	70-135	
Lab Batch #: 817881	Sample: 570022-1-BSD / B	SD Bate	h: I Matrix;	Solid		
Units: mg/kg	Date Analyzed: 08/06/10 12:20	SU	RROGATE RE	COVERY	STUDY	
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
I-Chlorooctane		123	100	123	70-135	
o-Terphenyl	,	58.4	50.2	116	70-135	
Lab Batch #: 817881	Sample: 570022-1-BLK / B	LK Bate	h: 1 Matrix:	: Solid	L	
Units: mg/kg	Date Analyzed: 08/06/10 12:40		RROGATE RI		STUDY	
	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
I-Chlorooctane		110	99.7	110	70-135	
o-Terphenyl		58.2	49.9	117	70-135	i

Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B All results are based on MDL and validated for QC purposes.



Project Name: Line 2B

Vork Orders: 384421	,		Project II):		
Lab Batch #: 817881	Sample: 384421-001 / SMP	Bate				
Units: mg/kg	Date Analyzed: 08/06/10 14:01	SU	RROGATE RI	ECOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		116	99,9	116	70-135	
o-Terphenyl		60.7	50.0	121	70-135	
Lab Batch #: 817881	Sample: 384421-002 / SMP	Batel	h: 1 Matrix:	Soil		
Units: mg/kg	Date Analyzed: 08/06/10 14:21	SU	RROGATE RE	COVERY	STUDY	
ТРН	By SW8015 Mod Analytes	Amount Found [A]	Truc Amount (B)	Recovery %R [D]	Centrol Limits %R	Flags
1-Chlorooctane	Anarytes	97.7	, 99.5	98	70-135	
o-Terphenyl		58.1	49.8	117	70-135	
Lab Batch #: 817881	Sample: 384421-003 / SMP	Batci	h: 1 Matrix:	Soil		·
Units: mg/kg	Date Analyzed: 08/06/10 14:42		RROGATE RE	•	STUDY	
	By SW8015 Mod Analytes	Amount Found [A]	True Amoant B	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		74.1	99.5	74	70-135	
o-Terphenyl		40.3	49.8	81	70-135	
Lab Batch #: 817881	Sample: 384421-004 / SMP	Batel	h: I Matrix:	Soil		
Units: mg/kg	Date Analyzed: 08/06/10 15:02	SU	RROGATE RI	COVERY	STUDY	
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
I-Chlorooctane	Allulytes	106	99.5	107	70-135	ļ
o-Terphenyl		53.3	49.8	107	70-135	
Lab Batch #: 817881	Sample: 384421-005 / SMP	Batc	h: Matrix:	: Soil	<u>L</u>	
Units: mg/kg	Date Analyzed: 08/06/10 15:22		RROGATE RI		STUDY	<u></u>
	By SW8015 Mod	Amount Found A	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes	<u> </u>		(D)		
1-Chlorooctane		106	99.5	107	70-135	
o-Terphenyl	•	60.1	49.8	121	70-135	

Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B All results are based on MDL and validated for QC purposes.

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Project Name: Line 2B

Vork Orders : 384421 Lab Batch #: 817881 Units: mg/kg	, Sample: 384421-006 / SMP Date Analyzed: 08/06/10 15:43	Bate	Project h: Matri RROGATE R	x:Soil	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount B	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		101	99.9	101	70-135	
o-Terphenyl		56.1	50.0	112	70-135	
Lab Batch #: 817881	Sample: 384446-001 S / MS	Bate	h: 1 Matri	x:Soil		
Units: mg/kg	Date Analyzed: 08/06/10 19:42	SU	RROGATE R	ECOVERY	STUDY	
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		120	100	120	70-135	
o-Terphenyl	<u> </u>	61.6	50.2	123	70-135	
Lab Batch #: 817881	Sample: 384446-001 SD / M	ISD Bate	h: Matri:	r;Soil		
Units: mg/kg	Date Analyzed: 08/06/10 20:02	SU	RROGATE R	ECOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		114	99.6	114	70-135	
o-Terphenyl		58.0	49.8 .	116	70-135	

Surrogate outside of Laboratory QC limits
 Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution Surrogate Recovery [D] = 100 * A / B All results are based on MDL and validated for QC purposes.

XENCO Laboratorics

BS / BSD Recoveries



Project Name: Line 2B

Work Order #: 384421 Analyst: ASA Lab Batch ID: 818482

Date Prepared: 08/10/2010

Batch #: 1

Sample: 570380-1-BKS

Project ID: Date Analyzed: 08/10/2010 Matrix: Solid

Units: mg/kg			BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	PIKE / B	ILANK S	PIKE DUPI	ICATE 1	RECOVE	RY STUD	٨	\square
BTEX by EPA 8021B	\ 8021B	Blank Sample Result	Spike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	Bik Spk Dup.	RPD	Control Limits	Control Limits	र्षे स्
Analytes		V.	[8]	Result [C]	%R [D]	[E]	Duplicate Result [F]	[G] X	. .	%R	%RPD	
Benzene	-	QN	0.1000	0.0917	7.6	1.0	0.0955	96	4	0£1-02	SE	
Tolucne		QN	0.1000	0.0871	<i>L</i> 8	1.0	0.0905	16	4	0£1-01	35	
Ethylbenzene		ΠN	0.1000	0.0938	64	0.1	0.0972	67	4	71-129	35	
m.p-Xylenes		QN	0.2000	0.1884	16	0.2	0.1950	3 6	3	70-135	SE	
o-Xylene		ΩN	0.1000	0.0924	92	0.1	0.0962	%	4	71-133	35	
Analyst: ASA		Đ	te Prepar	Date Prepared: 08/12/2010	0			Date A	nalyzed: 0	Date Analyzed: 08/12/2010		
Lab Batch ID: 818700	Sample: 570518-1-BKS	KS	Batch #:	1#:1					Matrix: Solid	bild		

Units: mg/kg		BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	PIKE / B	LANK S	PIKE DUPL	ICATE 1	RECOVE	RY STUD	Y	
BTEX by EPA 8021B	Blauk Sample Result IAI	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flæg
Analytes		[B]		ía)	[3]	Result [F]	<u>5</u>	ļ			
Benzene	QN	0.1000	0560.0	<u>95</u>	0.1	0.1115	112	16	70-130	35	
Tolucne	QN	0.1000	8680.0	8	0.1	0.1059	30£	16	70-130	35	
Ethylbenzene	QN	0.1000	0.0956	8	0.1	0.1119	112	16	71-129	S	
m.p-Xylancs	QN	0.2000	0.1925	8	0.2	0.2249	112	16	70-135	35	
o-Xylene	QN	0.1000	1760.0	6	0.1	0.1117	112	14	11-133	35	

Relative Petreut 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 1.000

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XENCO Loboratories

BS / BSD Recoveries



Project Name: Line 2B

Work Order #: 384421 Analyst: LATCOR Lab Batch ID: 818183

Date Prepared: 08/09/2010 Batch#: 1

Project ID: Date Analyzed: 08/09/2010 Matrix: Solid

Lab Batch ID: 818183	Sample: 818183-1-BKS	KS	Batch #:	∎#: 1 [`]					Matrix: Solid	olid		
Uaits: mg/kg			BLAN	K /BLANK S	PIKE / B	I ANK S	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	ICATE F	TE RECOVERY	RY STUD	Y	
Anions by E300		Blank Samile Recold	Spike Added	Blank Srike	Blaak Snike	Spike	Blank Snite	BIL Spk Den.	QAN	Control Limite	Control Limits	Flare
		[V]		Restt	%Β		Duplicate	%Β	*	%.R	%RPD	•
Analytes			[8]		fal	[E]	Result [F]	[6]				
Chloride	-	QN	10.0	8.98	66	10	9.01	8	0	75-125	20	

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Relative Percent Difference RPD = 200°((C-F)((C+F)) Blank Spite Recovery [D] = 100°(C)([B] Blank Spite Duplicate Recovery [G] = 100°(F)([E] All results are based on MDL and Validated for QC Purposes Page 18 of 25

Final 1.000

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BS / BSD Recoveries



Project Name: Line 2B

Work Order #: 384421 Anabyst: DAE Lab Batch ID: 819177

Date Prepared: 08/13/2010

Batch #: 1

Sample: 570635-1-BKS

Project ID: Date Analyzed: 08/17/2010 Matrix: Solid

Units: mg/kg		BLAN	K/BLANK S	PIKE/B	LANK S	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	ICATE 1	RECOVI	ERY STUD	Y	
SVOA PAHs List by EPA 8270C Analytes	Blank Sample Result JAJ	Spike Added [B]	Blath Spike Result IC)	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	BIK. Spk Dup. %R [G]	RPD %	Coutrol Limits %R	Control Limits %RPD	2 El
Acenaphthene	QN	1.66	16.1	79	1.66	1.60	8	20	48-118	25	
Accusphiltylene	Ð	1.66	1.32	80	1.66	1.61	6	20	44-118	25	
Anthracene	QN	1.66	1.35	18	1.66	1.71	103	24	611-65	25	
Benzo(a)anttracene	<u>ę</u>	997	1.36	82	1.66	1.69	102	22	53-124	52	
Benzu(a)pyrene	QN	1.66	1.50	8	1.66	1.88	113	22	54-128	25	
Benzo(b)fluoranthene	QN	1.66	1.65	8	1.66	2.03	122	21	45-141	25	
Bcazo(g,h,i)perylene	QN	99'1	1.46	88	1.66	1.87	113	25	48-132	25	
Benzo(k)fluoranthene	Q	997	1.24	75	1.66	1.58	95	24	51-123	25	
Chrysene	QN	1.66	. 1.32	8	1.66	1.62	8	20	57-117	25	
Dibenz(a,h)Anthracene	Q	1.66	1.56	94	1.66	1.96	118	23	52-134	25	
Fluorardbene	QN	1.66	1.39	8	1.66	1.73	101	22	52-126	25	
Fluorene	QN	99'1	1.34	18	99'1	1.64	8	20	48-121	25	
Indeno(1,2,3-c,d)Pyrene	QN	997	1.54	£6	1.66	1.95	117	23	49-133	25	
2-Methylnaphthalene	QN	99'1	1.17	01	1.66	1.45	87	21	25-175	25	
1-Methylnaphthalcnc	QN	9971	1.28	11	1.66	1.58	56	21	25-175	25	
Naphthalcoc	QN	9971	1.27	и	1.66	1.56	94	20	46-114	25	
Phenanthrene	DN	1.66	1.34	18	1.66	1.67	101	22	57-115	25	
Pyrene	QN	99'1	1.16	70	1.66	1.45	87	22	53-122	25	

Relative Petrem 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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BS / BSD Recoveries



Project Name: Line 2B

Work Order #: 3842] Anabyst: BEV Lab Batch ID: 81788]

Date Prepared: 08/06/2010 Batch #: 1

Sample: 570022-1-BKS

Date Analyzed: 08/06/2010 Matrix: Solid

Project ID:

Units: mg/kg		BLAN	<pre>< /BLANK 5</pre>	PIKE / B	ILANK S	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	ICATE	RECOVE	RY STUD	Y	
TPH By SW8015 Mod	Blank Sampte Result A	Spike Added	Blank Spike Rentt	Black Spike %R	Spike Added	Blank Spike Duolkate	Bik Spk Dup. %R	RPD *	Control Limits %R	Control Limits %RPD	Flag
Analytes		(B)	5	[0]	[E]	Reatt (F)	(G)				
C6-C12 Gasoline Range Hydrocarbons	QN	166	1250	125	0001	1150	115	8	70-135	35	
C12-C28 Diesel Range Hydrocarbons	QN	661	1040	104	1000	964	8	8	70-135	35	

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 1.000

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Form 3 - MS Recoveries



Project Name: Line 2B

Work Order #: 384421 . Lab Batch #: 818183 Date Analyzed: 08/09/2010 QC- Sample ID: 384419-001 S

Date Prepared: 08/09/2010

Project ID:

Batch #: 1

Analyst: LATCOR

QC- Sample ID: 384419-001 S	Batch #: 1			Matrix: S	loil	
Reporting Units: mg/kg	MATI	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added , JB]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	9.37	102	108	97	75-125	

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

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Work Order # : 384421

Lab Batch ID: 818482

Date Analyzed: 08/10/2010 Reporting Units: mg/kg

Project Name: Line 2B

Project ID:

-Batch #:

QC-Sample ID: 384421-001 S

Date Prepared: 08/10/2010

Matrix: Soil ASA

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY Analyst:

BTEX by EPA 8021B	Parent Sample Result	Spike Added	Spiked Sample Result ICI	Spiked Sampte %R	Spfike Added	Duplicate Spiked Sample Result [F]	Spiked Dap.	RPD %	Control Limits %R	Control Limits %RPD	Flag
Aualytes	[Y]			lai	[3]						
Benzene	DN	0.1030	1060'0	87	0.1051	0.0870	83	4	70-130	35	
Tohere	ND	0.1030	0.0822	80	0.1051	1610.0	9/	£	70-130	35	
Ethylbenzene	ND	0.1030	0.0621	80	0.1051	0.0799	76	3	71-129	35	
th,p-Xylenes	ND	0.2061	0.1633	79	0.2103	0.1588	76	3	70-135	35	
o-Xylene	ND	0.1030	0.0835	81	0.1051	0.0812	п	3	71-133	- SE	
Lab Batch ID: 817881	QC-Sample ID: 384446-001 S	384446	S 100	Ba	Batch #:	l Matrix	Matrix: Soil				

08/06/2010	mg/kg
Date Analyzed:	Reporting Units:

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	JIKE DI	PIKE / MATRIX SF	MATRIXS	
	BEV	Acalyst: BEV	08/06/2010	Date Prepared: 08/06/2010
Matrix: Soil	-	Batch #:	384446-001 S	QC-Sample ID: 384446-001 S

		141	AINIA SUNIA			MAINIAGHNE/ MAINIAGHNE DUFLICAIE RECUTENT STUDI			ICIDIC		
TBH Ry CW9015 Mad	Parent		Spiked Sample	Spiked	,	· Duplicate			Control	Control	
BATH CTOOLLO AR TELY	Sample	Splike	Result	Sample	3	Spiked Sampte		RPD	Limits	Linto	Fiag
	Result	Added	5	%Β	2	Result F		*	%.R	%RPD)
Analytes	[V]	(B)	3 (0)	[0]			<u>5</u>				
C6-C12 Gasoline Range Hydrocarbons	ND	1140	1210	90	1130	1150	102	~	70-135	35	Γ
C12-C28 Diesel Range Hydroczchons	ND .	1140	0101	- 68	89 . 1130	1040	92	~ i	70-135	ŝ	

Matrix Spite Percent Recovery [D] = [00*(C-A)/B Relative Percent Difference RPD = 200*(C-F)(C+F)

Matrix Spille Duplicate Percent Recovery [G] = 100*(F-A)E

ND = Not Detected, J = Presea Below Reporting Linti, B = Present in Black, NR = Not Requested, J = Interfacence, NA = Not ApplicableN = See Namtive, EQL = Estimated Quantization Linti

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Sample Duplicate Recovery



Project Name: Line 2B

Work Order #	£ 384421
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Lab Batch #: 818183 Date Annlyzed: 08/09/2010 QC- Sample ID: 384419-001 D	Date Prepar Batch	ed:08/09/2010 #: 1	Ana	Project I lyst:LATC rix: Soil		
Reporting Units: mg/kg		SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Anions by E300		Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte			(B)			
Chłoride		9,37	9.02	4	20	
Lab Batch #: 817728						
Date Analyzed: 08/06/2010	Date Prepar	ed:08/06/2010	Ana	yst:ЛG		•
QC- Sample ID: 384419-001 D	Batch	#: 1	Mat	rix: Soil		
Reporting Units: %		SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture		Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		11	(B)			
Percent Moisture		2.01	1.96	3	20	1

Spike Relative Difference RPD 200 • (B-A)/(B+A) (All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

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Refine the family (finites and Sign) Date & Time Refinquisited to (finites and Sign) Date & Time Total Containers per COC: Cooler Temp: Xoll PYLU 55 P-5-D P:35 2) Annot (1) Annot (2) Annot (2) <td></td> <td></td> <td></td> <td>·</td> <td>╺┟╌╢╴</td> <td></td> <td></td> <td>╉╼┼╸</td> <td>╉╋</td> <td></td> <td>$\overline{+}$</td> <td></td> <td></td> <td>┼╍┝</td> <td></td> <td>┼┾</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>╶┟╼┾╴</td> <td></td> <td></td> <td></td>				·	╺┟╌╢╴			╉╼┼╸	╉╋		$\overline{+}$			┼╍┝		┼┾						╶┟╼┾╴			
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Add Provide will be based on the stand report is emitting part. Samples will be based on the stand report is emitting part. Samples will be based on the stand report is emitting part. Samples will be based on the stand report is emitting part. Samples will be based on the stand report is emitting part. Samples will be based on the stand report is emitting part. Samples will be based on the stand report is emitting part. Samples will be based on the stand report is emitting part. Samples will be based on the stand report is emitting part. Samples will be based on the stand report is emitting part. Samples will be based on the stand report is emitting part. Address of the stand report is emitting part. Address of the stand report is emitting part. Samples will be based on the stand report is emitting part. Address of the stand report is emitting part. Address of the stand report is emitting part. Address of the stand report is emitting part. Address of the stand report is emitting part. Address of the stand report is emitting part. Address of the stand report is emitting part. Address of the stand report is emitting part. Address of the stand report is emitting part. Address of the stand report is emitting part. Address of the stand report. Address of the stand report is emitting part. Address of the stand report is emitting part. Address of the stand report is emitting part. Address of the stand report. Address of the stand report. Address of the stand report. Address of the stand report. Address of the stand report. Address of the stand repart.	Retroucted by (trades :	and Sign)	Conto o	- IN	-l	Reting	insted	E 0		(Ling)	-			-	31	ntatiner	Jan 1	ö		S S	der Tex			1	
arratives: Vertous (V). HC) pH<2 (H), H2SO4 pH<2 (S), HNC3 pH<2 (H), Asbe AddANSOH (A), ZhAedAnSOH (Z), (Codi, 4C) (C), None (NA), See Label (L). Other (O) U HADE See Label (L). Other (D) U HADE See Label (L). Other (O) U HADE See Label (L). Other (D) U HADE SEE See Label (L). Other (D) U HADE SEE See Label (L). Other (D) U HADE SEE SEE SEE SEE SEE SEE SEE SEE SEE S	mad more	3	nak	2.2	h						+		-	35	pad p	Sand	5		30 day	ana n	dau puu				
servatives: Various (V). HC) pH<2 (H), H2SO4 pH+2 (S), HNC3 pH+2 (N), Asbc Act48NaOH (A), ZnAc&NaOH (Z), (Coci, <4C) (C), None (NA), See Label (L), Other (O) [I_A [O2]); 4. Size: 4oz (6), Boz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Teidar Bag (B), Various (V), Other 2. Size: 4oz (6), Boz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Teidar Bag (B), Various (V), Other					1	B	R.	4		2	9		C I	X											
	servatives: Various (V). HK A. Size: 4oz (4), Boz (8), 32	Dates (H). Das (H2), 40n	H2SO4 pH<2 (11 VOA (40), 11	S), HINO (1), 50		(N). A Tedia	sbc Act r Bag (I	d&NaC 3), Væ	Ξ S S S S S S S S	ZhAcă J. Othe	Poer	8	₹ 10 10	0 (C) 0 - 1		NA), S Nass A	동물	58		<u>ତି ପ୍</u> ରି ଜ	기렴	۲ ۲	4	22	۲ ۲
Martic Ar (A), Product (P), Solid(S), Water (M), Liquid (L) Committed to Excellence in Service and Quality WWW.xenco.com	the: Air (A), Product (P), So	litet(S), Water	(m), Liquid (L)						გ	mmit	of be	Exce	lience	S i S	PNIC	and	Qual	è		2	C.MMA	KBINCK	mos.c	_	

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XENCO Laboratories

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Document Title: Sample Rocelpt 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:	FLO	ogical		
Date/Time:	8	.5.10	9:35	
Lab ID # :		390	1421	
Initials:		1	<u>An</u>	

Sample Receipt Checklist

1. Samples on ice?	Blue	Water	No	
2. Shipping container in good condition?	Ter	No	None	
3. Custody seats intact on shipping container (cooler) and bottles?	Yoe	No	ANA	
4. Chain of Custody present?	(Yar	No		
5. Sample instructions complete on chain of custody?	(Yar	No		
6. Any missing / extra samples?	Yes	S		
7. Chain of custody signed when relinguished / received?	Yes	No		
8. Chain of custody spress with sample label(s)?		No		
9. Container labels logible and intact?	Feg	No		
10. Sample matrix / properties agree with chain of custody?	Top	No		
11. Samples in proper container / bottis?	Yea	No		
12. Samples properly preserved?	(Jaw)	No	NA	
13. Sample container intact?		No		
14. Sufficient sample amount for indicated test(s)?	(Ye)	No		
15. All samples received within sufficient hold time?	(Yer)	No		
16. Subcontract of sample(s)?	Yes	No		
17. VOC sample have zero head space?	(Can	No	N/A	
18. Gaoler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 No	•	Cooler 5 No.	
ibs -3.1 °C ibs °C ibs	°C iba	°C	ibs –	°C

Nonconformance Documentation

Contact:_

-

Date/Time:

Regarding:

Corrective Action Taken:

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.s.1. Initial and Backup Temperature confirm out of temperature conditions

Client understands and would like to proceed with analysis

__ Contactod by:___

Analytical Report 401423

for Southern Union Gas Services- Monahans

Project Manager: Rose Slade

Line 2 B (West Side)

2010-055

27-DEC-10



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



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Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-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-Boça Raton (EPA Lab Code: FL01273): Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917) North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757), California(06244CA), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



27-DEC-10



Project Manager: Rose Slade Southern Union Gas Services- Monahans 1507 W. 15th Street Monahans, TX 79756

Reference: XENCO Report No: 401423 Line 2 B (West Side) Project Address: Jal, NM

Rose Slade:

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 401423. 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. 401423 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 401423



Southern Union Gas Services- Monahans, Monahans, TX

Line 2 B (West Side)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
East Floor	S	Dec-21-10 11:10		401423-001
East Wall	S	Dec-21-10 11:15		401423-002
Middle Floor	S	Dec-21-10 11:20		401423-003
South Wall	S	Dec-21-10 11:25		401423-004
North Wall	S	Dec-21-10 11:30		401423-005
West Floor	S	Dec-21-10 11:35		401423-006
West Wall	S	Dec-21-10 11:40		401423-007
		1		

CASE NARRATIVE



Client Name: Southern Union Gas Services- Monahans Project Name: Line 2 B (West Side)



 Project ID:
 2010-055

 Work Order Number:
 401423

Report Date: 27-DEC-10 Date Received: 12/21/2010

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-837528 BTEX by EPA 8021B SW8021BM

Batch 837528, Benzene, Ethylbenzene, Toluene, m_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Samples affected are: 401423-005, -002, -006, -007, -001, -004, -003. The Laboratory Control Sample for Toluene, Benzene, Ethylbenzene, m_p-Xylenes, o-Xylene is within laboratory Control Limits

XENCO Laboratories Project Id: 2010-055 Contact: Rose Slade

Certificate of Analysis Summary 401423 Southern Union Gas Services- Monahans, Monahans, TX Project Name: Line 2 B (West Side)



Date Received in Lab: Tue Dec-21-10 04:40 pm Report Date: 27-DEC-10

Project Location: Jal, NM					Report Date: 27-DEC-10	27-DEC-10	
					:L2	Brent Barron, II	
	Lab Id:	401423-001	401423-002	401423-003	401 423-004	401423-005	401423-006
America Dares and	Field Id:	East Floor	East Wall	Middle Floor	South Wall	North Wall	West Floor
noiconhay eiclinny	Depth:						
	Matrix	SOIL	SOIL	TIOS	SOIL	TIOS	SOIL
	Sampled:	Dec-21-10 11:10	Dec-21-10 11:15	Dec-21-10 11:20	Dec-21-10 11:25	Dec-21-10 11:30	Dec-21-10 11:35
Anions by E300	Extracted:						
	A nulyzed:	Dec-22-10 09:07	Dec-22-10 09:07	Dec-22-10 09:07	Dec-22-10 09:07	. Dec-22-10 09:07	Dec-22-10 09:07
	Units/RL:	ng/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	ong/kg RL	mg/kg RL
Chloride		58.3 4.55	11.1 4.29	11.3 4.38	10.1 4.33	24.6 4.47	9.55 4.55
BTEX by EPA 8021B	Extracted:	Dec-22-10 14:15	Dec-22-10 14:15	Dec-22-10 14:15	Dec-22-10 14:15	Dec-22-10 14:15	Dec-22-10 14:15
	A malyzed:	Dec-23-10 17:00	Dec-23-10 17:23	Dec-23-10 17:46	Dec-23-10 18:09	Dec-23-10 18:33	Dec-23-10 18:56
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg∕kg RL
Benzene		1100'0 GN	ND 0.0010	1100'0 CN	0100.0 UN	1100'0 CN	1100.0 UN
Tolucine		ND 0.0022	ND 0.0020	ND 0.0021	1200.0 UN	1200.0 UN	ND 0.0022
Ethylbenzene		1100'0 GN	0100'0 CIN	1100'0 GN	ND 0.0010	1100.0 GN	ND 0.0011
m_p-Xylenes		ND 0.0022	ND 0.0020	ND 0.0021	1200'0 QN	ND 0.0021	ND 0.0022
o-Xylene		1100.0 UN	0100'0 CN	1100.0 UN	0100 ⁻⁰ GN	1100'0 GN	1100.0 UN
Total Xylenes		1100'0 UN	0100.0 UN	1100'0 CIN	010070 QN	1100.0 UN	ND 0.0011
Total BIEX		1100.0 UN	0100'0 QN	1100'0 QN	010070 QN	1100'0 GN	1100.0 GN
Percent Moisture	Extracted:						
	Amhzed:	Dec-22-10 17:00	Dec-22-10 17:00	Dec-22-10 17:00	Dec-22-10 17:00	Dec-22-10 17:00	Dec-22-10 17:00
	Under/RL:	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		7.73 1.00	2.19 1.00	4.01 1.00	2.98 1.00	6.14 1.00	7.78 1.00
TPH By SW8015 Mod	Extracted:	Dec-22-10 08:45	Dec-22-10 08:45	Dec-22-10 08:45	Dec-22-10 08:45	Dec-22-10 08:45	Dec-22-10 08:45
`	A malyzed:	Dec-22-10 11:44	Dec-22-10 12:03	Dec-22-10 12:21	Dec-22-10 12:40	Dec-22-10 13:00	Dec-22-10 13:19
	Units/RL:	mg⁄kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
C6-C12 Gasoline Range Hydrocarbons		ND 16.3	ND 15.3	ND 15.6	ND 15.4	ND 16.0	E.01 UN 16.3
C12-C28 Diesel Range Hydrocarbons		20.4 16.3	ND 15.3	ND 15.6	ND 15.4	ND 16.0	E'91 QN
C28-C35 Oil Range Hydrocarbons		ND 16.3	ND 15.3	ND 15.6	ND 15.4	ND 16.0	ND 16.3
Total TPH		20.4 16.3	L 21 UN	ND 15.6	ND 15.4	ND 16.0	ND 16.3

This enarytical report, and the catine data packages in represent, has been made for your exclusive and confidential use. The interpretations and methic expressed throughout this analytical traven represent to be all juggered of XENOL adversaries XENOO Ladversaries ascences no responsibility and mattes as a sentanty to deterate and hereby presented. Our lidebility is limited to the extornal invoiced for this search other anale otherwise agreed to its writing.

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Odessa Laboratory Manager P. Brefit Barron, II

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XENCO Laboratories	Cer	tificate of A	Certificate of Analysis Summary 401423 Southern Union Gas Services- Monahans, Monahans, TX	ımary 4014 ans, Monahans	123 s, TX		
Project Id: 2010-055 Contact: Rose Slade Project Location: Jal, NM		Project Na	Project Name: Line 2 B (West Side)				
	Lab Id:	401423-007					
	Eistd 14.	West Wall			-		
Analysis Requested	Denth.	5		-			
	Matrix	SOIL					
	Sampled:	Dec					
Anions by E300	Extracted:						
,	A malyzed:	Dec-22-10 09:07					
	Undrs/RL:	mg/kg RL					
Chloride		10.2 4.54					
BTEX by EPA 8021B	Extracted:	Dec-22-10 14:15					
	Analyzed:	Dec-23-10 19:20					
	Units/RL:	mg/kg RL					
Benzene		ND 0.0011					
Tolence		ND 0.0021					
Ethylbenzene ·		1100.0 UN	-				
m_p-Xylenes		ND 0.0021					
o-Xylene		ND 0.0011					
Total Xylenes		1100:0 UN					
Total BTEX		1100.0 UN					
Percent Moisture	Extracted:						
	A nalyzed:	Dec-22-10 17:00					
	Units/RL:	1					
Percent Moisture		7.39 1.00					
TPH By SW8015 Mod	Extracted:	Dec-22-10 08:45					
	A nalyzed:	Dec-22-10 13:38					
	Undix/RL:	mg/kg RL					
C6-C12 Gasoline Range Hydrocarbons		1.91 QN					
C12-C28 Diesel Range Hydrocarbons							
C28-C35 Oil Range Hydrocarbons							
Total TPH		ND 16.1					
The interpretations and tracking cate participation in spreament, and noon materia way one accurate mater. The interpretations and transition proprieted dimensional properties of the participation of XENXOL laboratorics XENCOL Laboratorics anterness no responsibility and maters no warranty to the cat a kerichy protected Laboratoric	ace for your current spectrum the bast judg the cold use of the data	e and contracteut use. mean of XENCO Laboratories. a hereby prostated.				AN AN	
Der itaching te itarieted to the emoterit arrendor for fits work order teature otherwes agreed to it writing. Horestorn - D'allas - San Antionito - Atlanta - Tarmea - Boca Ration - Latin America	norus apros 10 a - 13 Ratori - Latin	muag America - Odesia - Corpus Christi	ous Christi		ψ	AN UN	
						Odered Sheriford, II	,
					~	OUCOS LAUUTGIUTY INIALAS	

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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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Project Name: Line 2 B (West Side)

Work Orders : 401423 Lab Batch #: 837528), Sample: 592143-1-BKS / B	KS Batch:	-): 2010-055 Solid		
Units: mg/kg	Date Analyzed: 12/23/10 15:26		ROGATE RE	COVERY	STUDY	<u> </u>
BTE	X by EPA 8021B	Amount Found [A]	True Amount B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0298	0.0300	99	80-120	
4-Bromofluorobenzene		0,0294	0.0300	.98	80-120	
Lab Batch #: 837528	Sample: 592143-1-BSD / B	SD Batch:	1 Matrix:	Solid		
Units: mg/kg	Date Analyzed: 12/23/10 15:49		ROGATE RE	COVERY	STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R {D}	Control Limits %R	Flags
1,4-Difluorobenzene		0.0301	0.0300	100	80-120	l
4-Bromofluorobenzene	<u></u>	0.0300	0.0300	100	80-120	
Lab Batch #: 837528		LK Batch:	1 Matrix:	Solid		
Units: mg/kg	Date Analyzed: 12/23/10 16:36	SUR	ROGATE RE	COVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0277	0.0300	92	80-120	
4-Bromofluorobenzene		0.0294	0,0300	98	80-120	
Lab Batch #: 837528	Sample: 401423-001 / SMP	Batch:	1 Matrix:	Soil		
Units: mg/kg	Date Analyzed: 12/23/10 17:00		ROGATE RE	COVERYS	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0277	0.0300	92	80-120	
4-Bromofluorobenzene		0.0292	0,0300	97	80-120	
Lab Batch #: 837528		Batch:	l Matrix:	Soil		
Units: mg/kg	Date Analyzed: 12/23/10 17:23	SUR	ROGATE RE	COVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Centrol Limits %R	Flags
1,4-Difluorobenzene		0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	•	0,0287	0,0300	96	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery $[D] = 100 \circ A / B$ All results are based on MDL and validated for QC purposes.



Project Name: Line 2 B (West Side)

Work Orders : 401423 Lab Batch #: 837528	3, Sample: 401423-003 / SMP	Batch		D: 2010-055 : Soil		
Units: mg/kg	Date Analyzed: 12/23/10 17:46	SU	RROGATE RE	COVERY S	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount (B)	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0279	0,0300	93	80-120	,
4-Bromofluorobenzene		0.0298	0.0300	99	80-120	
Lab Batch #: 837528	Sample: 401423-004 / SMP	Batch	h: i Matrix:	Soil	·	
Units: mg/kg	Date Analyzed: 12/23/10 18:09	SU	RROGATE RE	COVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0277	0.0300	92	80-120	
4-Bromofluorobenzene	· · · · · · · · · · · · · · · · · · ·	0.0301	0.0300	100	80-120	i
Lab Batch #: 837528	Sample: 401423-005 / SMP	Batch	h: Matrix:	;Soil		
Units: mg/kg	Date Analyzed: 12/23/10 18:33	SU	RROGATE RE	COVERY S	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0281	0.0300	94	80-120	
4-Bromofluorobenzene		0.0305	0.0300	102	80-120	
Lab Batch #: 837528	Sample: 401423-006 / SMP	Batch	h: I Matrix:	;Soil	<u> </u>	
Units: mg/kg	Date Analyzed: 12/23/10 18:56	** === • •	RROGATE RE	COVERY S	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0284	0.0300	95	80-120	<u></u>
4-Bromofluorobenzene		0.0310	0.0300	103	80-120	
Lab Batch #: 837528	Sample: 401423-007 / SMP	Batch	h: 1 Matrix:	Soil		
Units: mg/kg	Date Analyzed: 12/23/10 19:20	SU	RROGATE RE	COVERY S	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount (B)	Recovery %R [D]	Control Limits %R	Fings
1,4-Difluorobenzene		0.0280	0.0300	93	80-120	
4-Bromofluorobenzene		0.0306	0.0300	102	80-120	1

Surrogate outside of Laboratory QC limits
 Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B All results are based on MDL and validated for QC purposes.



Project Name: Line 2 B (West Side)

Work Orders: 401423, Lab Batch #: 837528 Sample: 4014	23-001 S / MS	Batei		2010-055 Soil		
Units: mg/kg Date Analyzed: 12/2.	3/10 20:53	SU	RROGATE RE	COVERY	STUDY	
BTEX by EPA 8021B Analytes		Amount Found [A]	True Amount [B]	Recovery %R JDJ	Control Limits %R	Flags
1,4-Difluorobenzene		0.0296	0.0300	99	80-120	
4-Bromofluorobenzene		0.0316	0,0300	105	80-120	
Lab Batch #: 837528 Sample: 4014	23-001 SD / MS	D Batel	h: I Matrix:	Soil		
Units: mg/kg Date Analyzed: 12/2	3/10 21:17	SU	RROGATE RE	COVERY	STUDY	
BTEX by EPA 8021B Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
I,4-Difluorobenzene		0.0300	0.0300	100	80-120	
4-Bromofluorobenzene		0.0313	0.0300	104	80-120	
Lab Batch #: 837235 Sample: 5919	78-1-BKS / BKS	Batcl	h:] Matrix:	Solid	11	
Units: mg/kg Date Analyzed: 12/22	_		RROGATE RE	COVERY	STUDY	
TPH By SW8015 Mod Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
I-Chlorooctane		72.9	100	73	70-135	
o-Terphenyl		35.8	50.2	71 [.]	70-135	
Lab Batch #: 837235 Sample: 5919	78-1-BSD / BSD	Batel	h: 1 Matrix:	Solid		
Units: mg/kg Date Analyzed: 12/22	2/10 11:07	SU	RROGATE RE	COVERY	STUDY	
TPH By SW8015 Mod Analytes		Amount Found [A]	True Amount B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		73.1	99.7	73	70-135	
o-Terphenyl		36.4	49,9	73	70-135	
Lab Batch #: 837235 Sample: 5919	78-1-BLK / BLK	Batel	h: 1 Matrix:	Solid	·I	
Units: mg/kg Date Analyzed: 12/2.	2/10 11:25	SU	RROGATE RE	COVERY	STUDY	
TPH By SW8015 Mod Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		77.1	100	77	70-135	
o-Terphenyl		40.8	50.0	82	70-135	<u>.</u>

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 • A / B All results are based on MDL and validated for QC purposes.



Project Name: Line 2 B (West Side)

Work Orders : 401423 Lab Batch #: 837235	Sample: 401423-001./ SMP	Batel): 2010-055 :Soil		
Units: mg/kg	Date Analyzed: 12/22/10 11:44	SU	RROGATE RE	ECOVERY	STUDY	
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Centrol Limits %R	Flags
1-Chlorooctane		78.9	100	79	70-135	
o-Terphenyl		41.8	50.0	84	70-135	
Lab Batch #: 837235	Sample: 401423-002 / SMP	Batel	h: I Matrix:	Soil		
Units: mg/kg	Date Analyzed: 12/22/10 12:03	SU	RROGATE RI	ECOVERY	STUDY	
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
I-Chlorooctane		77.6	99.7	78	70-135	· · ·
o-Terphenyl		39.7	49.9	80	70-135	
Lab Batch #: 837235	Sample: 401423-003 / SMP	Bate	h: Matrix:	Soil		
Units: mg/kg	Date Analyzed: 12/22/10 12:21	SU	RROGATE RE	ECOVERY	STUDY	
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		80.7	99.7	81	70-135	
o-Terphenyl	<u> </u>	42.0	49,9	84	70-135	
Lab Batch #: 837235	Sample: 401423-004 / SMP	Batel	h: 1 Matrix:	:Soil		
Units: mg/kg	Date Analyzed: 12/22/10 12:40	SU	RROGATE RE	ECOVERY	STUDY	
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	, Control Limits %R	Flags
I-Chlorooctane	Anarytes	75.2	99.8	75	70-135	
o-Terphenyl	· · · ·	38.8	49.9	75	70-135	
Lab Batch #: 837235	Sample: 401423-005 / SMP	Batc	h: Matrix:	: Soil	!	
Units: mg/kg	Date Analyzed: 12/22/10 13:00		RROGATE RI		STUDY	
	By SW8015 Mod Analytes	Amount Found [A]	True Amount B	Recovery %R [D]	Control Limits %R	Flags
I-Chlorooctane		76.1	99,9	76	70-135	
o-Terphenyl		39.9	\$0,0	80	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery $[D] \approx 100 \circ A / B$ All results are based on MDL and validated for QC purposes.



Project Name: Line 2 B (West Side)

Vork Orders : 401423 Lab Batch #: 837235	, Sample: 401423-006 / SMP	Bate	•	D: 2010-055		
Units: mg/kg	Date Analyzed: 12/22/10 13:19		RROGATE R	-	STUDY	
	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		78.6	100	79	70-135	
o-Terphenyl		41.4	50.1	83	70-135	
Lab Batch #: 837235	Sample: 401423-007 / SMP	Batel	h: 1 Matrix	; Soil		
Units: mg/kg	Date Analyzed: 12/22/10 13:38	SU	RROGATE R	ECOVERY	STUDY	
Трн і	By SW8015 Mod Analytes	Amount Found [A]	True Amount B]	Recovery %R [D]	Controi Limits %R	Flags
I-Chlorooctane		77.7	99.7	78	70-135	
o-Terph e nyl		40.8	49.9	82	70-135	
Lab Batch #: 837235	Sample: 401423-007 S / MS	Batc	h: l Matrix	:Soil		
Units: mg/kg	Date Analyzed: 12/22/10 15:50	SU	RROGATE R	ECOVERY	STUDY	
. ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R D]	Control Limits %R	Flags
1-Chlorooctane		79.1	99.6	79	70-135	
o-Terphenyl		40.7	49.8	82	70-135	·
Lab Batch #: 837235	Sample: 401423-007 SD / N	ISD Bate	h: 1 Matrix	;Soil		
Units: mg/kg	Date Analyzed: 12/22/10 16:09	SU	RROGATE R	ECOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
I-Chlorooctane		77.1	99.7	77	70-135	
o-Terphenyl		37.8	49,9	76	70-135	

Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution Surrogate Recovery [D] = 100 * A / BAll results are based on MDL and validated for QC purposes.

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BS / BSD Recoveries



Project Name: Line 2 B (West Side)

Work Order #: 401423 Auatyst: ASA Lab Batch ID: 837528

Date Prepared: 12/22/2010

Batch #:]

Sample: 592143-1-BKS

L

Project ID: 2010-055 Date Analyzed: 12/23/2010 Matria: Solid

Units: mg/kg			BLAN	BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	PIKE / B	ILANK S	PIKE DUPI	JCATE	RECOVE	RY STUD	Y	
BTEX by EPA 8021B		Blank Sample Result	Splike Added	Black Spike	Blauk Spike	Spfike Added	Btank Spike	Blk. Spk Dup.	RPD	Controf Lámits	Control Limits	Flag
Analytes		<u>e</u>	· B	(C)	8 % 8	[3]	Duplicate Result [F]	8% 10:	*	%R	%RPD	•
Benzene		QN	0.1000	0.0905	16	1'0	0.0922	56	2	70-130	SE	
Tolucne		QN	0.1000	0.0868	87	0.1	0.0883	88 88	2	70-130	35	
Ethylbenzene		DN	0.1000	0.0854	85	0.1	0.0867	47	2	11-129	35	
m_p-Xylenes		DN	0.2000	0.1780	89	0.2	0.1801	06	1	70-135	35	
o-Xylene		DN	0.1000	0.0874	87	0.1	0.0885	89	1	71-133	35	
Analyst: LATCOR		Da	te Prepare	Date Prepared: 12/22/2010				Date Ar	nalyzed:]	Date Analyzed: 12/22/2010		
Lab Batch ID: 837118	Sample: 837118-1-BKS		Batch #:	#: 1					Matrix: Solid	olid		

Units: mg/kg		BLAN	K /BLANK S	PIKE / B	LANK S	BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	ICATE I	RECOVE	RY STUD	Y	
Anions by E300	Blank Sample Result IAI	Spike Added	Blauk Spike Result	Blank Spike %R	Spike Added	Blank Spike Duoficate	Bik. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[8]		ē	(3)	Result [F]	5				
Chloride	ΩN	10.0	8.89	89	10	8.65	87	3	75-125	20	
										_	

1

Relative Percent Difference RPD = 200*((C-F)/(C+F)) Blank Spite Recovery [D] = 100*(C)/[B] Blank Spite Duplicate Recovery [G] = 100*(F)/[E] All results are based on MDL and Validated for OC Purposes Page 13 of 19

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4



BS / BSD Recoveries



Project Name: Line 2 B (West Side)

Work Order #: 401423 Analyst: BEV

Lab Batch ID: 837235

Date Prepared: 12/22/2010 Sample: 591978-1-BKS Batch #: 1

Project ID: 2010-055 Date Analyzed: 12/22/2010 Matrix: Solid

Units: mg/kg		BLAN	K /BLANK S	PIKE / B	ILANK S	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	ICATE F	RECOVE	RY STUD	۰	
TPH By SW8015 Mod	Blauk Sample Result	Splike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	Blk. Spk Dup.	RPD	Control Limits	Control Linits	Flag
Analytes	[V]	[8]	Reat [C]	n % 10]	[3]	Duplicate Result [F]	8% G	*	%R	%RPD	
C6-C12 Gasoline Range Hydrocarbons	Q	1000	922	65	166	626	93	1	20-135	35	
C12-C28 Diesel Range Hydrocarbons	DN	1000	912	16	666	884	68	3	70-135	35	

Relative Percent Difference RPD = 200*((C-F)/(C+F) Blank Spite Recovery [D] = 100*(C)/[B] Blank Spite Duplicate Recovery [G] = 100*(F)/[E] All results are based on MDL and Validated for OC Purposes Final 1.000

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Form 3 - MS Recoveries



Project Name: Line 2 B (West Side)

Work Order #: 401423 Lab Batch #: 837118 Date Analyzed: 12/22/2010 QC- Sample ID: 401423-001 S Reporting Units: mg/kg

Project ID: 2010-055

Date Prepared: 12/22/2010 An

Analyst: LATCOR Matrix: Soil

Reporting Units: mg/kg	MATI	UX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [Ð]	Control Limits %R	Flag
Chloride	58.3	108	149	84	75-125	ĺ

Batch #:

1

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

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: Line 2 B (West Side)

Work Order #: 401423

Date Analyzed: 12/23/2010 Lab Batch ID: 837528

Reporting Units: mg/kg

Batch #:

Matrix: Soil ----

Project ID: 2010-055

QC-Sample ID: 401423-001 S Date Prepared: 12/22/2010

Analyst: ASA

Reporting Units: mg/kg		W	ATRIX SPIKI	E/MAT	RIX SPH	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	T RECO	VERY S	YOUTS		Γ
BTEX by EPA 8021B	Parent Sample		Spiked Sample Spiked Result Sample	Spiked Sample	Splike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	Ū	a ē	Added [E]	Result (F)	% [G]	*	%8	%RPD	,
Bearcne	QN	0.1077	0.0702	65	0.1082	1120.0	3 8.	-	70-130	35	×
Tolucne	QN	0.1077	0,0667	62	0.1082	0.0677	63	-	70-130	35	×
Ethylbenzene	QN	0.1077	0.0653	61	0.1082	0.0660	61	-	71-129	35	×
m_p-Xyknes	QN	0.2155	0.1139	53	0.2163	0.1252	58	6	70-135	35	×
o-Xylene	DN	0.1077	0.0661	61	0.1082	0.0668	62	1	71-133	35	×
Lab Batch ID: 837235	OC-Sample ID: 401423-007 S	401423-	007 S	Ba	Batch #:	1 Matrix: Soil	: Soil				

Date Analyzed: 12/22/2010

Date Prepared: 12/22/2010

Analyst: BEV

Reporting Units: mg/kg		W	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	ITAM / 3	IIAS XII	CE DUPLICA	TE RECO	VERY S	YOUT		Γ
TPH By SW8015 Mod	Parcot Sampte	Spilke	Spiked Sample Spiked Result Sample	Spiked Sumple	Spilke	Duplicate Spliked Sample	Spiked Dup.	RPD -	Control Limits	Coutrol Limits	Fibs
Analytes	Resuft [A]	Added [B]		N% [D]	Vdded E]	Reatt [F]		*	% R	%R/D	
C6-C12 Gasoline Range Hydrocarbons	ND	1080	1070	8	1080	1050	61	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	QN	1080	820	76	1080	806	75	2	70-135	35	

Matrix Spite Perceut Recovery [D] = 100°(C.A)/B Relative Percent Difference RPD = 200°((C-F)(C+F))

Matrix Spike Duplicate Percent Recovery [G] = 100°(F.A)E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interfarence, NA = Not ApplicableN = See Nemzive, EQL = Estimated Quantization Limit

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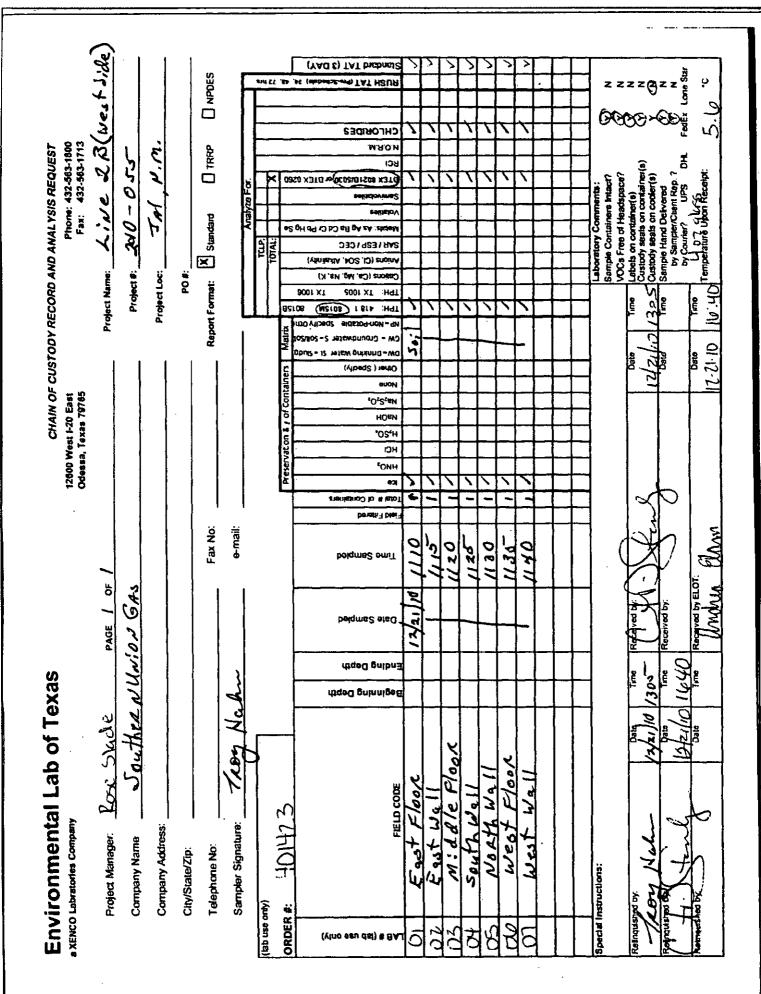
Sample Duplicate Recovery



Project Name: Line 2 B (West Side)

Work Order #: 401423						
Lab Batch #: 837118				Project I	D: 2010-05	5
Date Analyzed: 12/22/2010 09:07	Date Prepar	ed: 12/22/2010		lyst:LATC		
QC- Sample ID: 401423-001 D	Batch	i#: 1	Mai	t rix: Soil		
Reporting Units: mg/kg		SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Anions by E300		Parent Sample Result [A]	Sample Duplicate Result	RPÐ	Control Limits %RPD	Flag
Analyte			(B)			
Chloride		58.3	59,2	2	20	
Lab Batch #: 837238						
Date Analyzed: 12/22/2010 17:00	Date Prepar	ed: 12/22/2010) Ana	lyst:WRU		
QC- Sample ID: 401423-001 D	Batch	#: 1	Ma	t rix: Soil		
Reporting Units: %		SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture		Parent Sample Result [A]	Sample - Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte			[B]	1		
Percent Moisture		7.73	7.99	3	20	

Spike Relative Difference RPD 200 • | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit



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Atlanta, Boca Ration, Corpus Christi, Dallas Houston, Milami, Odessa, Philadalphia Phoenix, San Antonio, Tempa Document The: Sample Record 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	Southern Union Gris
Date/Time	17 21 10 16:40 .
Lab ID # :	401423
Initials:	AE
	······································

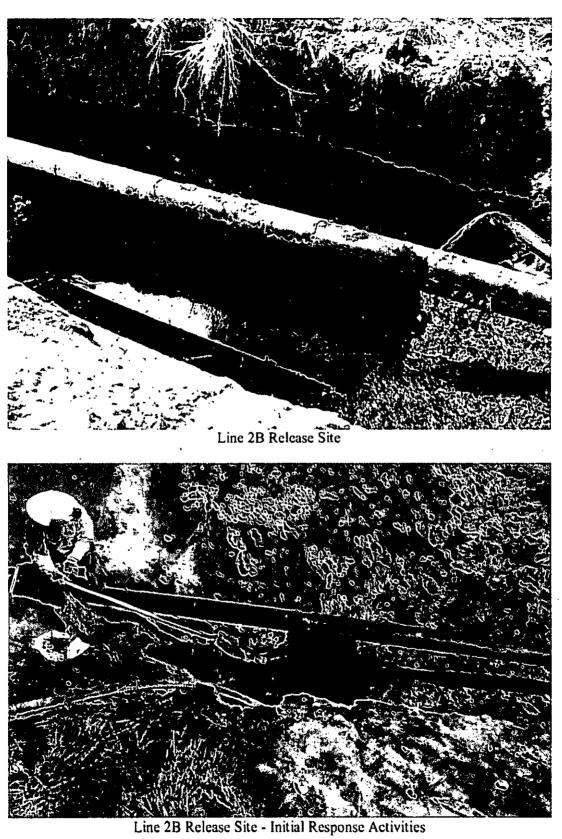
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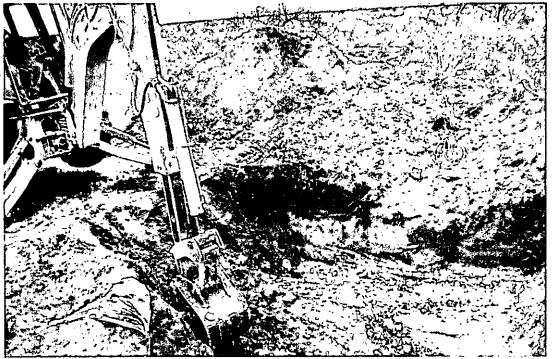
Sample Receipt Checklist

1. Samples on ico?	Blue	(Water)	No :	
2. Shipping container in good condition?	(Yes)	No	None	
3. Custody seels intact on shipping container (cooler) and bottles 3	Yes	No	N/A	
4. Chain of Custody present?	(Yes)	Nico		
5. Sample instructions complete on chain of custody?	(Yes)	No		
8. 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?		No .		
11. Samples in proper container / bottle?	Yog	No		
12. Samples property preserved?	(Yes)	No	N/A	
13. Sample container intact?	Tes	No		·
14. Sufficient sample amount for indicated test(s)?	Yes	No		
15. All samples received within sufficient hold time?	(Ym)	No		
16. Subcontract of sample(8)?	Yes	No	(N/A)	
17. VOC sample have zero head space?	(Ýes)	No	NA	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 No	<u>.</u>	Cooler & No.	
the 5.0°c the °c the	°C lbs	°C	iba	°C

Nonconformance Documentation

Contact	Contacted by:	Date/Time:	
Regarding:			<u></u>
Corroctive Action Tak	:n:		
· · · · · · · · · · · · · · · · · · ·			
Check all that apply:	Cooling process has begun shortly af condition acceptable by NELAC Dinitial and Backup Temporature confit Client understands and would libs to	m out of temperature conditions	<i>.</i> .

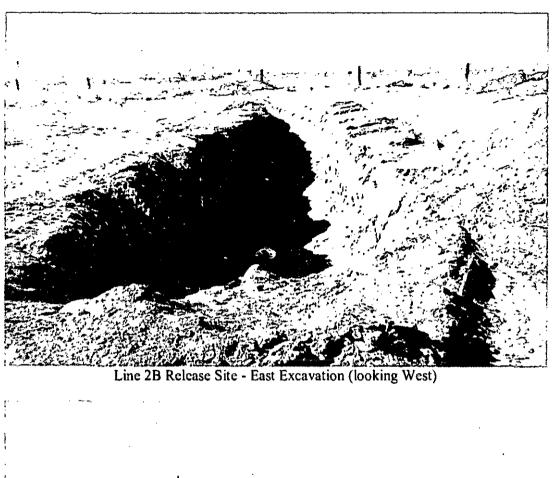




Line 2B - West Excavation



Line 2B - West Excavation (looking North-northcast)





Line 2B Release Site (following backfilling)