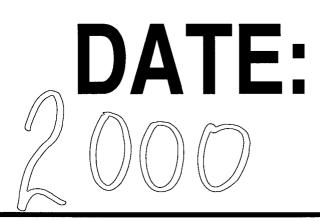


REPORTS





5309 Wurzbach, Suite 100 San Antonio, Texas 78238 (210) 680-3767 (210) 680-3763 FAX

RECEIVED

MAY 0 2 2000

ENVIRONMENTAL BUREAU OIL CONSERVATION DIVISION

Mr. Randall Dunn SID RICHARDSON GASOLINE COMPANY P. O. Box 1226 Jal, New Mexico 88252

Re: Closure Report J. Anthony Ranch Historical Release Site JAR-4 Unit Letter A, Section 36, Township 25 South, Range 37 East Lea County, New Mexico Job No. 960001-20

Dear Mr. Dunn:

April 26, 2000

Transmitted with this letter is the Closure Report for the Sid Richardson Gasoline Company J. Anthony Ranch Historical Release Site JAR-4. The site is located approximately 2 miles southwest of State Highway 205 and Whitworth Drive near Jal, Lea County, New Mexico.

Please contact me at (210) 680-3767 if you have any questions.

Respectfully,

Theresa Nix

Theresa Nix Project Manager

Enclosure

cc: William C. Olson, OCD Santa Fe/ Chris Williams, OCD Hobbs

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5309 Wurzbach, Suite 100 San Antonio, Texas 78238 (210) 680-3767 (210) 680-3763 FAX

CLOSURE REPORT

SID RICHARDSON GASOLINE COMPANY J. ANTHONY RANCH HISTORICAL RELEASE SITE JAR-4 UNIT LETTER A, SECTION 36, TOWNSHIP 25 SOUTH, RANGE 37 EAST LEA COUNTY, NEW MEXICO

PREPARED FOR:

SID RICHARDSON GASOLINE COMPANY P. O. Box 1226

Jal, New Mexico 88252

Mr. Randall Dunn

PREPARED BY:

KEI

Theresa Nix

Theresa Nix Project Manager

Michael J. Lewis, P.E.

Senior Engineer

KEI Job No. 960001-20

April 26, 2000

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SITE BACKGROUND	1
CLOSURE ACTIVITIES CLOSURE STANDARDS INITIAL INVESTIGATION EXCAVATION, BACKFILL, AND DISPOSAL CONFIRMATION SAMPLING	1
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TABLES TABLE I - SUMMARY OF LABORATORY RESULTS - SOIL	
APPENDICES APPENDIX A - ANALYTICAL LABORATORY REPORTS CHAIN-OF-CUSTODY DOCUMENTATION	

APPENDIX B - SITE PHOTOGRAPHS

PURPOSE AND SCOPE

The objective of the site closure activities was to obtain closure for the site based on New Mexico Oil Conservation Division (OCD) regulations. The following activities were performed to achieve this objective:

- determination of closure standards
- removal of impacted soil
- characterization of removed impacted soil
- off-site disposal of impacted soil
- sampling remaining soils to verify closure levels
- backfilling the excavation with clean soil
- planting grass seed and irrigating to re-establish vegetative growth

SITE BACKGROUND

The Sid Richardson Gasoline Company (SRGC), J. Anthony Ranch release site JAR-4, is located 2 miles southwest of State Highway 205 and Whitworth Drive near Jal, Lea County, New Mexico. The site is located in Unit Letter A, Section 36, Township 25 South, Range 37 East. A site location map is presented as FIG. 1.

The landowner notified SRGC of the area that would not sustain vegetative growth. According to the landowner, the release occurred approximately 25 years ago.

SRGC collected a soil sample from the site on April 26, 1999. The sample was submitted to Trace Analysis Inc. for determination of total petroleum hydrocarbons (TPH) and chloride concentrations. Laboratory results indicated a TPH concentration of 2,800 mg/kg and a chloride concentration of 270 mg/kg. The laboratory report is presented in APPENDIX A.

SRGC contracted KEI to determine vertical and horizontal extent, to confirm maximum TPH concentration, and to determine site closure concentrations. Site details are presented on FIG. 2.

CLOSURE ACTIVITIES

CLOSURE STANDARDS

The New Mexico OCD Guidelines for Remediation of Leaks, Spills, and Releases contains the standard criteria for remediation activities. A ranking analysis for the site was performed to determine appropriate soil remediation levels. The ranking analysis is as follows:

Depth to Ground Water	Greater Than 100 Feet	0 Points
Well Head Protection	Greater Than 1000 Feet to Water Source Greater Than 200 Feet to Private Water Source	0 Points
Surface Water Body	Greater Than 1000 Feet	0 Points
	Total Ranking Score	0 Points

Depth to ground water was confirmed by an actual reading obtained at a cathodic ground bed well located approximately 200 yards south of the site. Based on the total ranking score, the closure objectives for this site for concentrations of benzene, BTEX, and TPH in soil are summarized below.

CONSTITUENT	CLOSURE CONCENTRATIONS (mg/kg)
BENZENE	10
BTEX	50
ТРН	5,000

INITIAL INVESTIGATION

On June 14, 1999, 4 soil borings were advanced using a hand auger to obtain soil samples for vertical and horizontal delineation of the impacted area. A photo-ionization detector (PID) was utilized to evaluate the impact at selected intervals in each boring. The PID readings for each boring are presented in the following table.

BORING	DEPTH (feet)	PID READING (ppm)
B-1	0.5	4.5
	2.0	23.1
	4.0	2.0
	5.0	2.0
B-2	0.5	5.3
	2.0	4.9
	4.0	2.0
B-3	0.5	0.8
	2.0	0.8
B-4	0.5	4.5
	2.0	2.0

Soil samples obtained from boring B-1 at 2 feet and 5 feet below ground surface were also submitted to Xenco Laboratories, Inc. in San Antonio, Texas. The samples were each analyzed for total petroleum hydrocarbons (TPH) concentrations using EPA Method 418.1. The results are presented in the table below.

SAMPLE LOCATION	DEPTH (feet)	TPH CONCENTRATION (mg/kg)
B-1	2.0	7,100
B-1	5.0	16.0

A composite sample obtained from boring B-2 was submitted to Xenco Laboratories for determination of chloride, sulfate, ammonia-nitrogen, and sulfide concentrations using EPA Methods 300.0, 350.2, and 376.2. The sulfide concentration was below laboratory reporting

limits. The chloride, sulfate, and ammonia-nitrogen concentrations are presented in the following table.

SAMPLE LOCATION	CHLORIDE CONCENTRATION (mg/kg)	SULFATE CONCENTRATION (mg/kg)	AMMONIA-NITROGEN CONCENTRATION (mg/kg)
B-2	42	8,360	14.0

A background sample was obtained from an unaffected area in the site vicinity and submitted to Xenco Laboratories for determination of chloride, sulfate, ammonia-nitrogen, and sulfide concentrations using EPA Methods 300.0, 350.2, and 376.2. The ammonia-nitrogen and sulfide concentrations were below laboratory reporting limits. The chloride and sulfate concentrations are presented in the following table.

SAMPLE LOCATION		SULFATE CONCENTRATION (mg/kg)
Background	5	39

Analytical results from the soil samples are summarized in TABLE I. Soil analytical reports are presented in APPENDIX A.

EXCAVATION, BACKFILL, AND DISPOSAL

The stained surface soils were excavated on August 13, 1999 using a front loader to remove surface sands to reveal the impacted area. The Sid Richardson Gasoline Company's 4 inch gas pipeline was buried at an approximate depth of 4 feet below ground surface. A backhoe was used to excavate around the pipeline to a maximum depth of 8 feet. The remainder of the impacted soils were removed with the front loader. Excavated soil was stockpiled on-site pending transport to the disposal site. The measurements of the excavation and soils removed are summarized below:

MEASUREMENT	VALUE
Length	50 feet
Width	20 feet
Excavated Area	Approximately 1,000 square feet
Maximum Depth	Approximately 8 feet
Volume Disposed	Approximately 210 cubic yards
Fresh Soil Hauled to Site	Approximately 210 cubic yards
Assumed Depth to Water	185 feet

Permission was obtained from the Oil Conservation Division to use the excavated soil for fill material in soil berms at the Sid Richardson Shoals Compressor site since the soil did not exceed closure concentrations. Prior to using the soil for fill material at the Shoals Compressor site, a composite sample was obtained from all the soils that had been hauled to the site. The sample was submitted to Environmental Lab of Texas, Inc. for determination of TPH concentration using EPA Method 418.1. The TPH concentration is presented in the following table.

SAMPLE LOCATION	TPH CONCENTRATION (mg/kg)
Shoals Compressor Site	<10

Analytical results from the soil sample is summarized in TABLE I. Soil analytical reports are presented in APPENDIX A.

Native silty soil from an unaffected borrow pit area of the J. Anthony Ranch was obtained from the landowner and used to backfill the excavation site. On August 18, 1999, approximately 210 yards of soil was used to backfill the excavation. Site photographs are presented in APPENDIX B.

CONFIRMATION SAMPLING

One composite confirmation soil sample was obtained from the excavation floor and sidewalls on August 13, 1999. Several random grab samples were composited into a plastic container and analyzed with a PID instrument. The PID reading was 0.3 ppm.

The composite sample was placed into a suitable laboratory jar and submitted to Environmental Labs of Texas, Inc. for determination of Total Petroleum Hydrocarbon (TPH) concentration using EPA Method 418.1 and sulfates concentration using EPA Method SW846-9038. The concentration results are presented below:

SOIL	TPH	SULFATES
CONSTITUENT	(mg/kg)	(mg/kg)
Bottom	<10	5,560

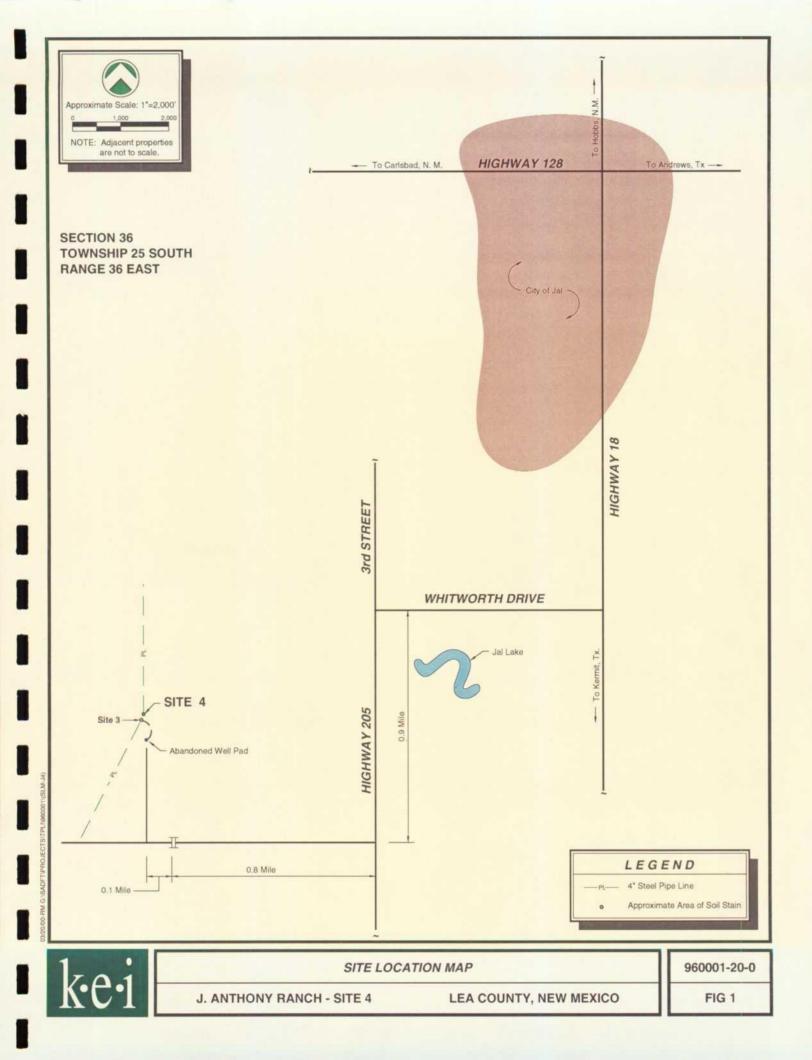
Analytical results from the soil sample is summarized in TABLE I. Soil analytical reports are presented in APPENDIX A. The soil sample location and result is presented on FIG. 2.

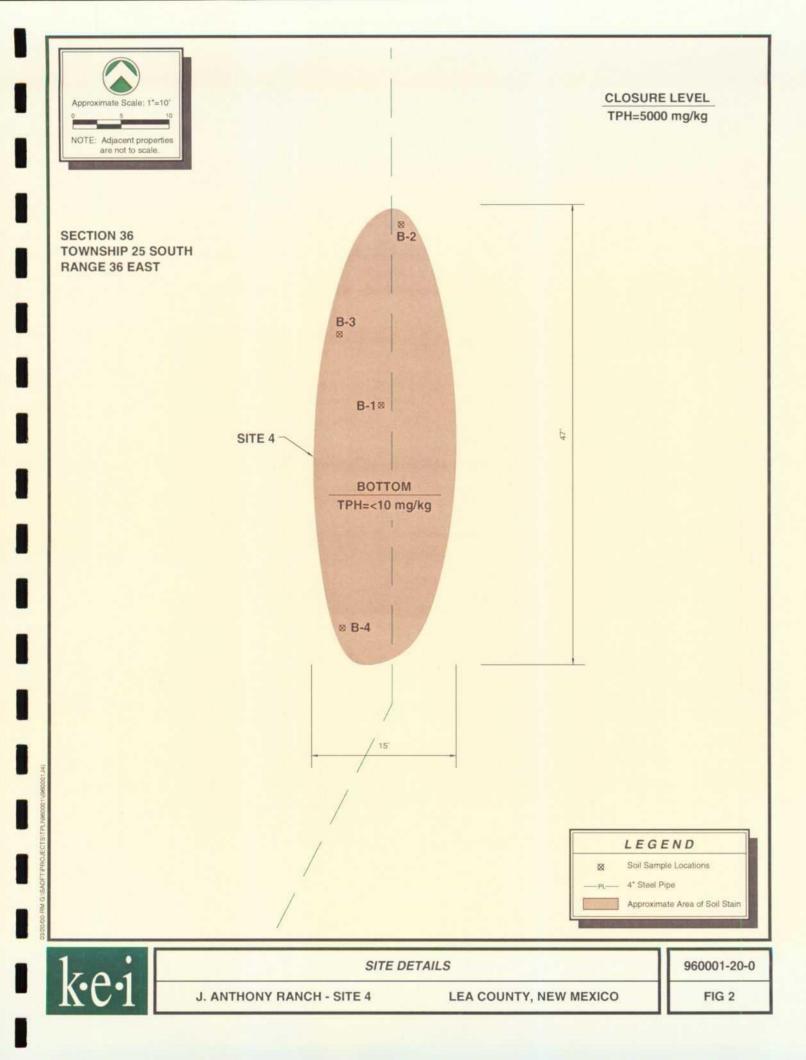
CLOSURE SUMMARY

The following can be summarized from field and laboratory data:

 soil impacted by Sid Richardson Gasoline Company's release was excavated, stockpiled, and disposed off-site.

Based on activities completed at the site, Sid Richardson Gasoline Company requests that this release site be closed under OCD regulations.





GENERAL NOTES

- ND Indicates PID reading of 0.0.
 ** Indicates surface soil sample.
 --- Indicates sample was not analyzed for constituent listed.

Method detection/reporting limits:

TPH	-	10 mg/kg
Chloride	-	20 mg/kg
Sulfate	-	20 mg/kg
Ammonia-Nitrogen	-	4.0 mg/kg
Sulfide	-	5.0 mg/kg

Laboratory test methods:

TPH	-	EPA Method 418.1
Chloride	-	EPA Method 300.0
Sulfate	-	EPA Method 300.0 and SW846-9038
Ammonia-Nitrogen	-	EPA Method 350.2
Sulfide	-	EPA Method 376.2

TABLE I

SUMMARY OF LABORATORY RESULTS - SOIL J. ANTHONY RANCH HISTORICAL RELEASE SITE JAR-4

SAMPLE LOCATION	SAMPLE DATE	DEPTH (feet)	PID READING (ppm)	TPH (mg/kg)	CHLORIDE (mg/kg)	SULFATE (mg/kg)	AMMONIA- NITROGEN (mg/kg)	SULFIDE (mg/kg)
BACKGROUND	06/14/99	**	—	-	5	39	<4.0	<5.0
B-1	06/14/99	0.5	4.5					
B-1	06/14/99	2.0	23.1	7,100				
B-1	06/14/99	4.0	2.0					
B-1	06/14/99	5.0	2.0	16.0				
B-2	06/14/99	0.5	5.3					
B-2	06/14/99	2.0	4.9					
B-2	06/14/99	4.0	2.0					
B-3	06/14/99	0.5	0.8					
B-3	06/14/99	2.0	0.8					
B-4	06/14/99	0.5	4.5					
B-4	06/14/99	2.0	2.0					
B-2	06/14/99	COMPOSITE			42	8,360	14.0	<5.0
EXCAVATION BOTTOM	08/13/99	COMPOSITE	0.3	<10		5,560		
SHOALS COMPRESSOR	10/28/99	COMPOSITE	ND	<10			_	

ANALYTICAL REPORT -92394

for

KEI Consultants, Ltd.

Project Manager: S. Grover Project Name: Sid Richardson Project Id: 910107-1-0

June 28, 1999



 11381 Meadowglen Lane
 Suite L * Houston, Texas 77082-2647

 Phone (281) 589-0692
 Fax (281) 589-0695



11381 Meadowglen Suite L Houston, Texas 77082-2647 (281) 589-0692 Fax: (281) 589-0695 Houston - Dallas - San Antonio - Latin America

June 28, 1999

Project Manager: S. Grover KEI Consultants, Ltd. 5309 Wurzbach Rd. Suite 100 San Antonio, TX 78238

Reference: XENCO Report No.: -92394 Project Name: Sid Richardson Project ID: 910107-1-0 Project Address: Jal, N.M.

Dear S. Grover:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with XENCO Chain of Custody Number -92394.r All results being reported to you apply only to the samples analyzed, properly identified with a Laboratory ID number. This letter documents the official transmission of the contents of the report and validates the information contained within.

All the results for the quality control samples passed thorough examination. Also, all parameters for data reduction and validation checked satisfactorily. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, completeness or properly flagged.

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 3 years in our archives and after that time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. -92394r will be filed for 60 days, and after that time they will be properly disposed of 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).

XENCO operates under the A2LA guidelines. Our Quality System meets ISO/IEC Guide 25 requirements which is strictly implemented and enforced through our standard QA/QC procedures.

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.

Sincerely,

Eddie L. Clemons, II QA/QC 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!





KEI Consultants, Ltd.

Project Name: Sid Richardson

Project ID: 910107-1-0

Project Manager: S. Grover Project Location: Jal, N.M.

XENCO COC#: -92394

Date Received in Lab: Jun 15, 1999 11:30 by SE

XENCO Contact : Carlos Castro/Debbie Simmons

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	Analysis (Jun 25, 1999 14:17 by AO	Jun 23, 1999 15:30 by IF	Jun 21, 1999 14:45 by IF	Jun 25, 1999 14:37 by AO	Jun 23, 1999 15:50 by IF	Jun 21, 1999 15:15 by IF	Jun 25, 1999 14:47 by AO	Jun 23, 1999 16:00 by IF	Jun 21, 1999 15:30 by IF	Jun 16, 1999 10:52 by ML	Jun 16, 1999 10:56 by ML	Jun 16, 1999 11:00 by ML	Jun 16, 1999 11:04 by ML
Date and Time	Extraction	Jun 25, 1999 by AO	Jun 23, 1999 by IF	Jun 21, 1999 by IF	Jun 25, 1999 by AO	Jun 23, 1999 by IF	Jun 21, 1999 by IF	Jun 25, 1999 by AO	Jun 23, 1999 by IF	Jun 21, 1999 by IF	Jun 16, 1999 by ML			
Dat	Requested													
	Collected	Jun 14, 1999 10:47	Jun 14, 1999 10:47	Jun 14, 1999 10:47	Jun 14, 1999 10:36	Jun 14, 1999 10:36	Jun 14, 1999 10:36	Jun 14, 1999 09:08	Jun 14, 1999 09:08	Jun 14, 1999 09:08	Jun 14, 1999 09:36	Jun 14, 1999 10:14	Jun 14, 1999 10:05	Jun 14, 1999 08:22
	Around Around	7 days												
	Únits	mg/kg	mg/kg	mg/kg	mg/kg	By/8m	mg/kg	By/6w	By/6ш	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Method	EPA 300.0	EPA 376.2	EPA 350.2	EPA 300.0	EPA 376.2	EPA 350.2	EPA 300.0	EPA 376.2	EPA 350.2	EPA 418.1	EPA 418.1	EPA 418.1	EPA 418.1
	Method	Anions	Sulfide	Ammonia-N	Anions	Sulfide	Ammonia-N	Anions	Sulfide	Ammonia-N	ТРН	НД	Hell	HdT
	Lab.ID	92394-001			92394-002			92394-003			92394-004	92394-005	92394-006	92394-007 TPH
	A Field ID	1 Jar 4,1	2	3	4 Jar 4,2	6	9	7 Jar 3,1	8	8	10 4,1,2,0	11 4,1,5,0	12 3,1,2,0	13 3,1,5,0

Houston - Dallas - San Antonio

								• .
Laboratories		CERTIFICATE	OF ANALYSIS	SUMMARY	-92394			
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Project Manager: S. Grover Project Location: Jal, N.M.					Date Report Faxed: xenco contact :	Date Report Faxed: Jun 28, 1999 XENCO contact : Carlos Castro/Debbie Simmons	ebbie Simmons	
	Lab ID: Field ID:	92394 001 Jar 4,1	92394 002 Jar 4,2	92394 003 Jar 3.1	92394 004 4 1 2 0	92394 005 4 1 5 0	92394 006 3 1 2 0	
Analysis Requested	Depth: Matrix: Sampled:	Solid 06/14/99 10:47	Solid 06/14/99 10:36	Solid 06/14/99 09:08	Solid Solid 06/14/99 09:36	Solid Solid 06/14/99 10:14	Solid Solid 06/14/99 10:05	
Anions by Ion Chromatography EPA 300.0	Analyzed: Units:	06/25/99 R.L. marka	06/25/99 R.L. ma/ka	2/90 0.00				
Chloride		5 (4)	42 (20)					
Sulfate		39 (4)	8360	4530				
Ammonia-Nitrogen EPA 350.2	Analyzed: Units:	06/21/99 R.L. mg/kg	06/21/99 R.L. mg/kg	. 06/21/99 R.L. mg/kg				
Ammonia-Nitrogen		< 4.0 (4.0)						
Sulfide, Colorimetric EPA 376.2	Analyzed: Units:	06/23/99 R.L. mg/kg	06/23/99 R.L. mg/kg					
Sulfide		< 5.0 (5.0)						:
Total Petroleum Hydrocarbons EPA 418.1	Analyzed: Units:				06/16/99 R.L.	06/16/99 R.L.	06/16/99 R.L.	
Total Petroleum Hydrocarbons					7100 (1000)	16.0 (10.0)	2100 (1000)	
T bis						ð	hot be	
This report summary, and the entire report it represents, has been made for the exclusive and confidential use of KEI Com The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.	t represents, h irough this ana responsibility	as been made for the exclus slytical report represent the and makes no warranty to t	sive and confidential use of best judgment of XENCO La the end use of the data herel	of KEi Consultants, Ltd) Laboratories. Breby presented.		Eddie QA/C	Eddie L. Clemons, II QA/QC Manager	
			Houston - Dallas - San Antonio	n Antonio			Page	""]

Project ID: 310.07-1-0 KEI Consultants, Lid. Project Manager: S, Grover Project Name: Sid Richardson Project Location: Ja, NM. Jak NM. Sempler: Sold Project Name: Sid Richardson Jak NM. Sold Sold Project Name: Sid Richardson Jak NM. Sold Sold Total Petroleum Hydrocarbons Analyzed (Sch698 R.L. Jotal Petroleum Hydrocarbons Analyzed (Sch698 R.L. Total Petroleum Hydrocarbons Analyzed (Sch698 R.L.	CERTIFICATE OF ANALYSIS	SIS SUMMARY -92394	
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Total Petroleum Hydrocarbons Analyzed Units: Mailyzed Mailyzed Mailyzed Single R.L. Total Petroleum Hydrocarbons 0.0 10.0 10.0 10.0 Total Petroleum Hydrocarbons Total Petroleum Hydrocarbons Total Petroleum Hydrocarbons	Lab ID: Field ID: Depth: Matrix: Sampled:		
I otal Petroleum Hydrocarbons < 10.0 (10.0) This report summary, and the entire report it represents, has been made for the exclusive and confidential use of KEI Consi The insport summary, and the entire report it represents, has been made for the exclusive and confidential use of KEI Consi XENCO Laboratories, however, assumes no responsibility and makes no warranty to the end tae of the fact hereby presented.	Analyzed: 06/16/99 Units: mg/kg		
This report summary, and the entire report it represents, has been made for the exclusive and confidential use of KEI Control interpretations and results expressed through this analytical report represents the bast judgment of XENCO Laboratories. XENCO Laboratories, neweer, assumes no responsibility and makes no warranty to the end use of the data hereby presented.			
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	e report it represents, has been made for the exclusive and confidential us presed through this analytical report represent the best judgment of XENC sumes no responsibility and makes no warranty to the end use of the data	se of KEI Consultants, Ltd CO Laboratories. hereby presented.	Eddie L. Clemons, Il QA/QC Manager
Houston - Dallas - San Antonio	Houston - Dallas - S	san Antonio	Page 2



Certificate Of Quality Control for Batch :: 19A10B09

EPA 300.0 Anions by Ion Chromatography

Date Validated: Jun 28, 1999 12:15 Date Analyzed: Jun 25, 1999 14:17 Analyst: AO

Matrix: Solid

		MATRIXI	DUPLICATI	EANALYS	IIS	
Q.C. Sample ID	[A] Sample	[B] Duplicate	[C]	[D] QC	[E] LIMITS	[F]
92394- 001	Result	Result	Detection	Relative	Relative	Qualifie
Parameter	mg/kg	,mg/kg	Limit mg/kg	Difference %	Difference %	
Chloride	4.7	4.4	4.0	6.6	20.0	
Sulfate	38.9	41.6	4.0	6.7	20.0	

Relative Difference [D] = 200*(B-A)/(B+A) N.C. = Not calculated, data below detection limit N.D. = Below detection limit All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II QA/QC Manager





Anions by Ion Chromatography **EPA 300.0**

Date Validated: Jun 28, 1999 12:15 Date Analyzed: Jun 25, 1999 11:43

Analyst: AO

Matrix: Solid

	CALCOLOGIC SCHOOL SCHOO				Sec. 3.	vorine purelicaties	CALEAND RECO	ECOVERY			
		<u>6</u>	5	6	9	Blank	E	ତ୍ର	H	E	Ξ
	Blank	Blank Spike	Blank Spike	Blank		Limit	gc	ဗ	ပ္မွ	Blank Spike	
rarameter	Kesult	Result	Duplicate	Spike	Detection	Relative	Spike Relative	Blank Spike	B.S.D.		Qualifier
			Result	Amount	Limit	Difference	Difference	Recovery	Recovery		
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	*	*	*	*	*	
Chloride	< 0.20	10.90	10.90	10.00	0.20	20.0	0.0	109.0	109.0		
Sulfate	< 0.20	10.90	10.50	10.00	0.20	20.0	3.7	109.0			

B.S.D. = Blank Spike Duplicate B.S.D. Recovery [H] = 100°(C-A)/[D] N.D. = Below detection limit or not detected All results are based on MDL and validated for QC purposes Spike Relative Difference [F] = 200*(B-C)/(B+C) Blank Spike Recovery [G] = 100*(B-A)/[D]

Houston Dallas - San Antonio

Eddle L. Clemons, II QA/QC Manager

Page



Certificate Of Quality Control for Batch : 19A20A89

EPA 350.2 Ammonia- Nitrogen

Date Validated: Jun 22, 1999 12:10 Date Analyzed: Jun 21, 1999 14:45 Analyst: IF

Matrix: Solid

		MATRIX	DUPLICAT	EANALYS	IS .	
A C Sample ID	[A]	[8]	[C]	[0]	[E]	দ্য
Q.C. Sample ID	Sample	Duplicate		QC	LIMITS	1
92394-001	Result	Result	Detection	Relative	Relative	Qualifier
Deremeter			Limit	Difference	Difference	
Parameter	mg/kg	mg/kg	mg/kg	%	%	
Ammonia-Nitrogen	< 4.00	< 4.00	4.00	N.C	25.0	

Relative Difference [D] = 200*(B-A)/(B+A) N.C. = Not calculated, data below detection limit N.D. = Below detection limit All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II

QA/QC Manager



Certificate Of Quality Control for Batch : 19A20A89

EPA 350.2 Ammonia- Nitrogen

Date Validated: Jun 22, 1999 12:10 Date Analyzed: Jun 21, 1999 14:00 Analyst: IF Matrix: Solid

			BLANK SPI	(EANALYS	SIS		
	[A]	(B)	[C]	[D]	(E)	(F]	[G]
	Blank	Blank Spike	Blank		QC	LIMITS	
Parameter	Result	Result	Spike	Detection	Blank Spike	Recovery	Qualifier
			Amount	Limit	Recovery	Range	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	
Ammonia-Nitrogen	< 4.00	9.52	10.00	4.00	95.2	70-125	
	~ 4.00	9.52	10.00	4.00	55.2	70-125	

Blank Spike Recovery [E] = 100*(B-A)/(C) N.C. = Not calculated, data below detection limit N.D. = Below detection limit All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II

QA/QC Manager



Certificate Of Quality Control for Batch : 19A12C25

EPA 376.2 Sulfide, Colorimetric

Date Validated: Jun 24, 1999 10:15 Date Analyzed: Jun 23, 1999 15:30 Analyst: IF

Matrix: Solid

		MATRIX	DUPLICAT	EANALYS	is ,	
A.C. Semple ID	[A]	[B]	[0]	[0]	[[]	[F]
Q.C. Sample ID	Sample	Duplicate		QC	LIMITS	1
92394-001	Result	Result	Detection	Relative	Relative	Qualifier
De remente r	-1		Limit	Difference	Difference	
Parameter	mg/kg	mg/kg	mg/kg	%	%	
Sulfide	< 5.00	< 5.00	5.00	N.C	20.0	

Relative Difference [D] = 200*(B-A)/(B+A) N.C. = Not calculated, data below detection limit N.D. = Below detection limit All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II

QA/QC Manager



Certificate Of Quality Control for Batch :: 19A12C25

EPA 376.2 Sulfide, Colorimetric

 Date Validated:
 Jun 24, 1999
 10:15

 Date Analyzed:
 Jun 23, 1999
 15:00

Analyst: IF Matrix: Solid

			BLANK SPII	(EANALYS	SIS		
	[A]	(B)	[C]	[D]	(E]	(F]	[G]
	Blank	Blank Spike	Blank		QC	LIMITS	
Parameter	Result	Result	Spike	Detection	Blank Spike	Recovery	Qualifier
			Amount	Limit	Recovery	Range	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	
Sulfide	< 5.00	932	971	5.00	96.0	70-125	
		Blank Parameter Result mg/kg	[A] [B] Blank Blank Spike Parameter Result mg/kg mg/kg	[A] [B] [C] Blank Blank Spike Blank Parameter Result Result mg/kg mg/kg mg/kg	[A] [B] [C] [D] Blank Blank Blank Blank Parameter Result Result Spike Detection Amount Limit mg/kg mg/kg mg/kg mg/kg	Blank Blank Spike Blank QC Parameter Result Result Spike Detection Blank Spike mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	[A] [B] [C] [D] [E] [F] Blank Blank Spike Blank QC LIMITS Parameter Result Result Spike Detection Blank Spike Recovery mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg % %

Blank Spike Recovery [E] = 100*(B-A)/(C) N.C. = Not calculated, data below detection limit N.D. = Below detection limit All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II

QA/QC Manager



Certificate Of Quality Control for Batch : 19A30A67

EPA 418.1 Total Petroleum Hydrocarbons

Date Validated: Jun 16, 1999 15:00 Date Analyzed: Jun 16, 1999 10:08 Analyst: ML Matrix: Solid

			BLANK SPII	(EANALY:	1. 1. 1. 1. COL		
	[A]	(B)	[C]	[D]	(E)	(F)	[G]
	Blank	Blank Spike	Blank		QC	LIMITS	
Parameter	Result	Result	Spike Amount	Detection Limit	Blank Spike Recovery	Recovery Range	Qualifier
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	
Total Petroleum Hydrocarbons	< 10.00	182	201	10.00	90.5	65-135	

Blank Spike Recovery [E] = 100*(B-A)/(C) N.C. = Not calculated, data below detection limit N.D. = Below detection limit All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II

QA/QC Manager





EPA 418.1 Total Petroleum Hydrocarbons

 Date Validated:
 Jun 16, 1999
 15:00

 Date Analyzed:
 Jun 16, 1999
 10:32

Analyst: ML

Matrix: Solid

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O.C. Samula ID	2		2	2	Ē	Matrix	E	ତ୍ର	E	E	5
	Sample	Matrix Spike Matrix Spike	Matrix Spike	Matrix		Limit	g	00	0	Matrix Childa	
92392-003	11.000	2	:	:					2	Avido vinem	
	Lesui	linsay		Spike	Detection	Relative	Spike Relative	Matrix Spike	M.S.D.	Recovery	Qualifier
Democratic	1		Result	Amount	Limit	Difference	Difference	Recoverv	Recovery	Bande	
raiaineter	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	*	*	*	7.	ofination in the second s	
Total Petroleum Hudrocarhone	1000	77.5						2	۲	•	
		21	901	201	10.00	30.0	10.3	86.1	77.6	65-135	T.

Spike Relative Difference [F] = 200*(B-C)/(B+C) Matrix Spike Recovery [G] = 100*(B-A)[D] M.S.D. = Matrix Spike Duplicate M.S.D. Recovery [H] = 100*(C-A)[D] M.D. = Below detection limit or not detected All results are based on MDL and validated for QC purposes

Houston Dallas · San Antonio

Eddie L. Clemons, II QA/QC Manager

Page

	5309 Wurzbach Road, Sulte 104, San Antonio, TX 78238 210 11078 Mortison Road, Sulte D, Dallas, TX 75229 972-481-9999	oad, Sulfe	D. Dal	as. TX 7	5229 9	72-481-	6666		U	oamo	Company COC No:	pany COC No: 307 Work Order No:	3	207		M	rk Or	Work Order No:				Page		of	
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"Don't Treat Your Soil Like Dirt!"

KE) ATTN: MR TONY SAVOIE P.O. BOX 1030 JAL, NEW MEDICO 88252 FAX: 505-585-3478

Sample Type: Soll Sample Condition: Intect/Iced Project 8: 980001-1-0 Project Name: Sid Richardson J.A.R. Project Location: 2 mi. South of Jal. N.M. Sampling Date: 10/28/99 Receiving Date: 10/26/99 Analysis Date: 10/26/99

	TPH	
ELT# FELD CODE	(119/14)	
21117 960001-1-0 Shoals Comp.	<10	

% INSTRUMENT ACCURACY	96
% EXTRACTION ACCURACY	95
BLANK	<10

METHODS: EPA 418.1

Kalade Just

10-28-99 Date

12600 West I-20 East - Odessa, Texas 79765 - (915) 563-1800 - Fax (915) 563-1713

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

KEI ATTN: MR. TONY SAVOIE P.O. BOX 735 JAL. NEW MEXICO 88252 FAX: 505-395-3476

Sample Type: Soil Sample Condition: Intact/Iced Project #: Sid Richardson Project Name: Jay Anthony Ranch Project Location: Jal, N.M. Sampling Date: 08/13/99 Receiving Date: 08/13/99 Analysis Date: 08/14/99

ELT#	FIELD CODE	TPH (mg/kg)	Sulfates (mg/kg)	
19197	Jar 3	<10	1358	
19198	Jar 4	<10	5560	

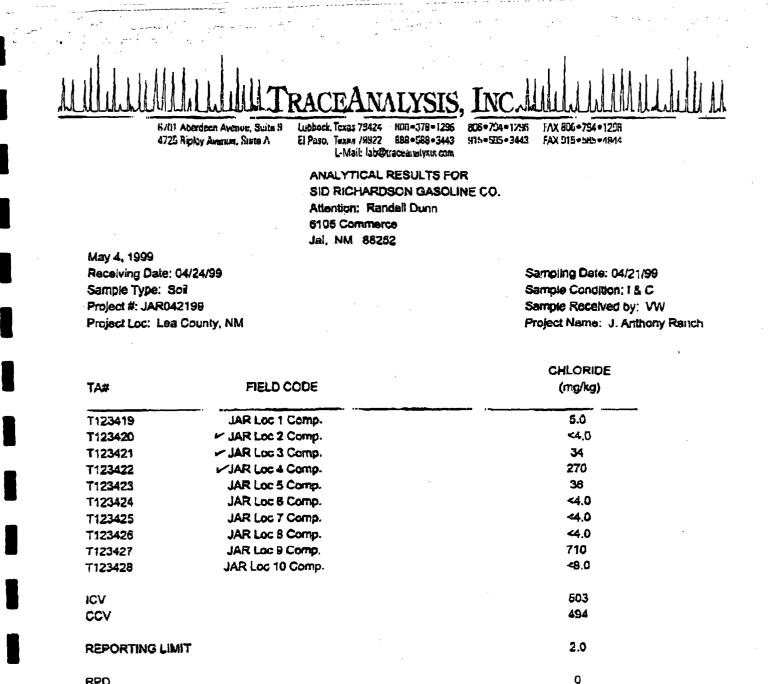
% INSTRUMENT ACCURACY	101	107
% EXTRACTION ACCURACY	106	•
BLANK	<10	<1

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METHODS: EPA 418.1, SW846-9038

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RPD % Extraction Accuracy % Instrument Accuracy

PREP DATE ANALYSIS DATE

METHODS: EPA SM 4500 CI-B CHEMIST: JS CHLORIDE SPIKE: 2000 mg/kg CHLORIDE

Director, Dr. Blair Leftwich

CHLORIDE CV: 500 mg/L CHLORIDE

5-4-99

110

101

04/30/99

04/30/99

Date

6701 Aberdeon Avenue, Suite 9 4725 Ripley Avenue, Suite A

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Lubback, Takas 79424 800+378+1296 (117350, Texas 79922 888+588+3443 E-Moil: Lab/Straceworalysis.com

805+794+1298 915=585+1049

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Analytical and Quality Control Report

Kandall Dunn Sid Richardson Gesoline Cu. Box 1226 Jal, NM 88252

ς.

Report Date:

4/27/99

Project Number: Project Name: Project Location:	JAR012199 J. Anthony Ranch Los County NM	Order ID Number: 99042406
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Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc. for analysis:

Sample Number	Sample Description	Matrix	Date Taken	Time Taken	Daic Received
123409	JAR Loc 12 Comp	Soil	4/21/99	15:25	4/24/99
123410	JAR Loc 13 Comp	Soil	4/21/99	15:29	4/24/99
123411	JAR Loc 14 Cump	Soil	4/21/99	15:32	4/24/99
123412	JAR Loc 15 Comp	Soil	4/21/99	15:36	4/34/99
123413	JAR Bkgr t Comp	Soil	4/21/99	13:14	4/24/99
123414	JAR Bkgr 2 Comp	Suil	4/21/99	15:17	4/24/99
123415	JAR Bkgr 3 Comp	Soil	4/21/99	15:40	4/24/99
123416	JAR Bktill Comp	Soil	4/21/99	9:15	4/24/99
123417	Jar Loc 20 Comp	Soil	4/21/99	14;25	4/24/99
123418	Jar Loc 21 Comp	Soil	4/21/99	14:15	4/24/99
123419	JAR Loc Comp	Soil	4/21/99	12:15	4/24/99
123420	JAR Loc 2 Comp	Soil	4/21/99	12:30	4/24/99
[2342]	JAR Loc 3 Comp	Soil	4/21/99	12:40	4/24/99
123422	JAR Luc 4 Comp	Soil	4/21/99	14:45	4/24/99
123423	JAR Loc 5 Comp	Soil	4/21/99	13:02	4/24/99
123424	JAK Loc 6 Comp	Soil	4/21/99	13:42	4/24/99
123425	JAR Loc 7 Comp	Soil	4/21/99	13:55	4/24/99
123426	JAR Loc 8 Comp	Soil	4/21/99	14:12	4/24/99
123427	JAR Loc 9 Comp	Soil	4/21/99	14:45	4/24/99
123428	JAR Loc 10 Comp	Soil	4/21/99	15:05	4/24/99
123429	JAR Loc 11 Comp	Soil	4/21/99	15:15	4/24/99

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

 Application 	-	-		· ·	••••			•	~	,	
Report Date: 4/2	27/99	··	Or	der ID N	umber: 990	42406			Page	Number:	 4 of 8
Sample Number: Description:	123416 JAR Bkfill Comp										
Param	Flag	Warmah	1 (nite	Dilution	Analytical Method	Ustc	Date Analyzed	Analisat	Prep Databall	QC	121.52
TRPLIC			mg/Kg		E 418.1	Prepared 4/26/99	4/26/99	Analyst MF	Batch 4 PB00491	Balch # QC00587	10
Sample Number: Description:	123417 Jar Loc 20 Comp										
Param	Flag	Result	Umila	Dilution	Analytical Method	Date Prepared	Duir Annlyzud	Analyst	Prep Batch #	QC Batch #	RDL
TRPHC		1730	ш⊮∕Кд	1	E 418.1	4/26/99	4/26/99	MF	FR06481	QC000587	10
Sample Number: Description:	123418 Jar Loc 21 Comp				Analytical	Date	Date		Prep	QC	
Param	Flag			Dilution	Method	Prepared	Analyzed	Apolyst	Butch #	Hatch #	RDI.
тррнс		<10.0	my/Kg	1	E 415,1	4/26/99	4/25/99	MF	PB00491	QC00587	10
Sample Number: Description:	123419 JAR Loc I Comp				Apalytical	Daic	Dete		Ртер	QC:	
Param	Flug	Readt	Units	Dihaion		Prepared	Analyzed	Analyse	llatch #	Batch #	RDL
ТКРНС		<16.0	mg/Kg	1	E 418,1	4/26/99	4/25/99	MF	PINX)491	QC00587	10
Sample Number: Description:	l23420 JAR Loc 2 Comp										
l'aram	Flag	Result	Units	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Beuch #	QC Bauch #	RDL
трнс		371	mg/Kg	1	12 418,1	4/26/99	4/26/99	MF	PB00491	QC00587	10
Sample Number. Description:	123421 JAR Loc 3 Comp				4 1 1	12-44					•
Punum	Fing	Result	Units	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Pren Batch #	QC Batch #	RDI.
ткрнс	······································		mg/Kg	1	E 418.1	4/26/99	4,26/99	MF	17500491	QC00587	10
Sample Number: Description.	123422 JAR Lue 4 Comp	Con	m Sa	Le				1	·	~~~~~·	
Paralin 55730		-		Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prop Batich #	QC Butch #	RD).
TRPHC			mg/Kg	1	F. 418.1	4/26/99	1/26/99	MF		QC00587	10
Sample Number; Description:	123423 JAR Loc 5 Comp				Analytical	Date	Duiz		Prep	QC	
Paran	Flag	Result	Unics	Dilution	Method	Prepured	Analyzed	Analyst	Batch #	Batch #	RDI.
TRPHC			mg/Kg		E 418.1	4/26/99	4/26/99	MF	PB00491	QCUUSX7	10

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Report Date: 4/	27/99		Or	der ID Ni	imber: 990	42406			Page	Number:	لا أن ك
Sample Number: Description:	123424 JAR Los 6 Comp)			Analytical	Ditte	Date		Ртер	00	····
Param	Flag	Result	Units	Dilution	Method	Prepared	Analyzed	Analyst	Batch #	Batch #	RD
тррнс		612	mg/Ke	1	E411.1	4/26/99	4/26/99	MF	PB00491	QC00588	1(
Sample Number:	123425										
Description:	JAR Loc 7 Comp)			Analytical	Duic	Date		Dava		
Param	Flag	Result	Units	Dilution	Method	Prepared	Analyzed	Analyst	Prep Ratch #	QC Barch #	RDL
TRPHC		402	mg/Kg	1	E 418,1	4/26/99	4/26/99	MI	11300491	QC00.588	
Sample Number: Description:	123426 JAR Loc 8 Comp	,									
Param	Flag	Result	Units	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Satch #	RDG
TRPIIC;		186	mg/Kg	1	6418.1	4/26/99	4/26/99	MF	PB00491	QCUQSHS	10
Semple Number:	(23427					••••••••	··	******			
Description:	JAR Loc 9 Comp					.			_ ·		
Permu	i'tag	Result	Units	Dilution	Analytical Mathod	Dats I'repared	Uste Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
TRPHC		5540	mg/Kg	1	E 418.1	4/26/99	4/25/99	MI	PR00491	QC00588	10
Sample Number: Description:	123428 JAR Loc 10 Com	ę									
Peram	Fing	Result	Units	Dilution	Anamical Method	Date Prepared	Dule Analyzed	Analysi	Prep Batch #	QC Barch #	кuг
TRPHC			mg/Kg	1	E 418.1	4/26/99	4/25/99	MF	PB00491	QCOOSES	:0
Sample Number:	123429			<u></u>							
Description:	JAR Los 11 Com	P			••	· • • •			_	•-	
l'aram	Flag	Resul:	Vaits	Dilution	Analytical Method	iDate Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch <i>ii</i>	ומא
TRPHC			mg/Ky	1	E 418.1	4/26/99	4/26/94	MF	P13111491	QC00588	10

Quality Control Report Method Blanks

Param	Flag	Blank Result	Linica	Reporting Limit	Date Analyzed	Prep Darch #	QC Batch #
TRPHC	1 0 0	<10.0	mg/Kg	10	4/26/99	PB00491	QC00586
тррнс		<10.0	my/Kg	10	4/26/99	PB00491	QC00587
тррнс		<10.0	mg/Kg	10	4/26/99	PB00491	QC90588



VIEW OF EXCAVATION



VIEW OF BACKFILLED AREA

