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1910 N. Big Spring St. Midland, Texas 79705 432-686-8081

November 4, 2010

Messer's Justin Wright and John Gates ConocoPhillips 29 Vacuum Complex Lane Lovington, NM 88260

RE: Request for Closure MCA 2A Header Fiberglass Trunk Line Lea County, New Mexico Unit G, Sec. 29, T17S, R32E 1RP 2223

Dear Messer's Wright and Gates:

Tetra Tech submits this suggested request for closure for the soil remediation performed February 6, 2010 through October 29, 2010, at ConocoPhillips' MCA 2A Header 3-inch Trunk Line oil/produced water release site (Site). This work was in support of ConocoPhillips' efforts to remediate soil affected by a 1 barrel crude oil and 21 barrel produced water release reported to the New Mexico Oil Conservation Division (NMOCD; C141 attached). The Site is located below the Mescalero Ridge, approximately 1.4 miles southwest of the ConocoPhillips MCA Unit office in Lea County, New Mexico (32.807717°N, 103.784688°W). The U.S. Bureau of Land Management (USBLM) is the land administrator.

The Site is located in the Querecho Plains of eastern New Mexico. This area generally consists of a thin cover of Quaternary sand dunes overlying the undivided Triassic Upper Chinle Group¹. The Pyote series soil at the Site is well drained, non-calcareous fine sands.²

The Site is heavily populated with oil field pipelines. Observations made by Tetra Tech during the initial site visit revealed at least 5 pipelines extending through the Site; two steel 4-inch pipelines, one 2-inch diameter steel pipeline, one 3-inch diameter fiberglass produced water trunk line and one 8-inch transite line. The two 4-inch steel lines were out-of-service and segments of these lines were removed in late July 2010, to allow unrestricted access to the affected area.

Exposure Pathway Analysis

Depth to water in the vicinity of the Site is estimated to be approximately 76 feet below ground surface (fbgs). This interpretation is based information gathered at monitoring well MW-20 that is described in ConocoPhillips' remediation project entitled "*Maljamar Gas Plant GW-020*" (log

¹U.S. Department of Agriculture, Natural Resources Conservation Services. Web Soil Survey Database.

² Turner, M.T., D.N. Cox, B.C Mickelson, A.J. Roath, and C.D Wilson, 1973. Soil Survey Lea County, New Mexico. U.S. Depart of Agr Soil Conser Ser, 89p.

Messrs Wright and Gates November 4, 2010 Page 2 MCA 2A Header Fiberglass Trunk Line Closure Report

submitted in initial findings report dated October 6, 2009). The monitoring well is located approximately 2,160 feet northeast of the Site. The nearest playa is approximately 0.4 miles southeast of the Site.

Following the ranking criteria presented in "*Guidelines for Remediation of Leaks, Spills, and Releases*" promulgated on August 13, 1993 by the NMOCD, this Site has the following score:

Criteria		Ranking <u>Score</u>
Depth to groundwater	50 - 99 feet	10
Distance from water source	>1,000 feet	0
Distance from domestic water source	>200 feet	0
Distance from surface water body	>1,000 feet	_0
Total Ranking Score		10

The recommended remediation action level for a ranking score of 10-19 is 10 parts per million (ppm) for benzene, 50 ppm for total benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 1,000 ppm for total petroleum hydrocarbons (TPH).

Summary of Work

A Site investigation was competed and the findings report was submitted to the NMOCD and the BLM in October 2009. The findings indicated TPH concentrations were either not present or below its remedial action level in samples collected from the affected areas. Benzene and BTEX concentrations were not present in any of the samples.

The initial excavation work plan, submitted October 6, 2009, was approved by both the NMOCD and BLM (October 26 and 27, respectfully) proposed the excavation of three areas (A, B, and C) affected by the oil/produced water release to a minimum depth of 6 feet below ground surface (fbgs). Adjacent sand dune material would be used to partially backfilled the excavation. Natural wind erosion would re-sculpture the affected area and restore the sand dune lizards, *Sceloporus arenicolus*, habitat.

On February 17, 2010, the NMOCD, BLM and Tetra Tech representatives met on-site to discuss a transite line hazard and possible work around strategies. The NMOCD and BLM agreed (February 19, 2010) that in Area A (or 1; 50-feet by 26-feet) the affected soil would be excavated to a depth of 4-feet and clay material would be returned to the site and compacted to a 1-foot thick barrier, and the area would be backfilled with borrowed sand. In Area C (or 2) the affected soil, under a hazardous transite line, would be hand excavated to a depth of 2-feet and borrowed clay material would be compacted to a 1-foot thick barrier (Figure 1). The excavation would be 3-feet by 35-feet and supported by a plywood retention wall. Confirmation samples would be collected from Area B (or 3; 10-feet by 6-feet) and the area backfilled with surrounding sand.



Messrs Wright and Gates November 4, 2010 Page 3 MCA 2A Header Fiberglass Trunk Line Closure Report

On July 21, 2010, ConocoPhillips removed segments of the two 4-inch steel lines that were outof-service to allow unrestricted access to the affected Area A. Remediation of all affected areas resumed on August 3, 2010 and was completed October 29, 2010, with the closing of the access road.

Scope of Work

Area A (50-feet by 26-feet) affected soil was excavated to a depth of 4-feet and hauled to a State approved disposal location. Clay material was returned to the excavation and compacted to a 1-foot thick barrier and the area backfilled with borrowed sand. In Area C, the affected soil under the transite line was hand excavated to a depth of 2-feet and borrowed clay material was compacted to form a 1-foot thick barrier. The excavation was approximately 3-feet by 35-feet. Confirmation samples were collected from Area B (10-feet by 6-feet) and left open to allow for windblown native soil to re-sculpture the area.

Findings

Soil encountered at the Site was moist reddish yellow medium to very fine grained loose silty sands from the surface to varying depths. The dune sands overly red sandy clay, interbedded with caliche.

Because TPH and BTEX concentrations reported in the initial findings report, dated October 6, 2009, were either below the recommended remedial action levels or not detected, these constituents were not analyzed for excavation clean confirmation.

Chloride concentrations were detected in the south wall and the floor of the Area A excavation. A complete analytical report is presented in the Appendix.

1		Sam	pling Locat	tion (5 Sam	ple Compo	osite)
Constituent	Units	W-Wall	N-Wall	S-Wall	E-Wall	Floor
Chloride	(mg/Kg)	ND	ND	84.2	ND	45.3

mg/Kg = milligrams per kilogram

Excavation clean confirmation for the small oval Area B is presented below and in the Appendix. Chloride concentrations were detected in the wall samples but no in the floor of the Area B excavation.

			Sampling	Locations	
Constituent	Units	E-Wall	W-Wall	N-Wall	Floor
Chloride	(mg/Kg)	48.6	51.1	5.88	ND

mg/Kg = milligrams per kilogram

Conclusions

A laboratory analysis of the over-excavations indicates clean boundaries in Areas A and B were achieved (Photo Log). Clay barriers were placed in Area A and under the transite pipeline (Area C) to prevent potential downward migration of residual chloride in soil due to precipitation.



Messrs Wright and Gates November 4, 2010 Page 4 MCA 2A Header Fiberglass Trunk Line Closure Report

Recommendations

Based on the work performed at this Site, Tetra Tech recommends no further action. Tetra Tech suggests that ConocoPhillips request closure from the NMOCD and the BLM for this mixed crude oil/produced water release location. If you have any questions or need additional information, please call me.

Sincerely,

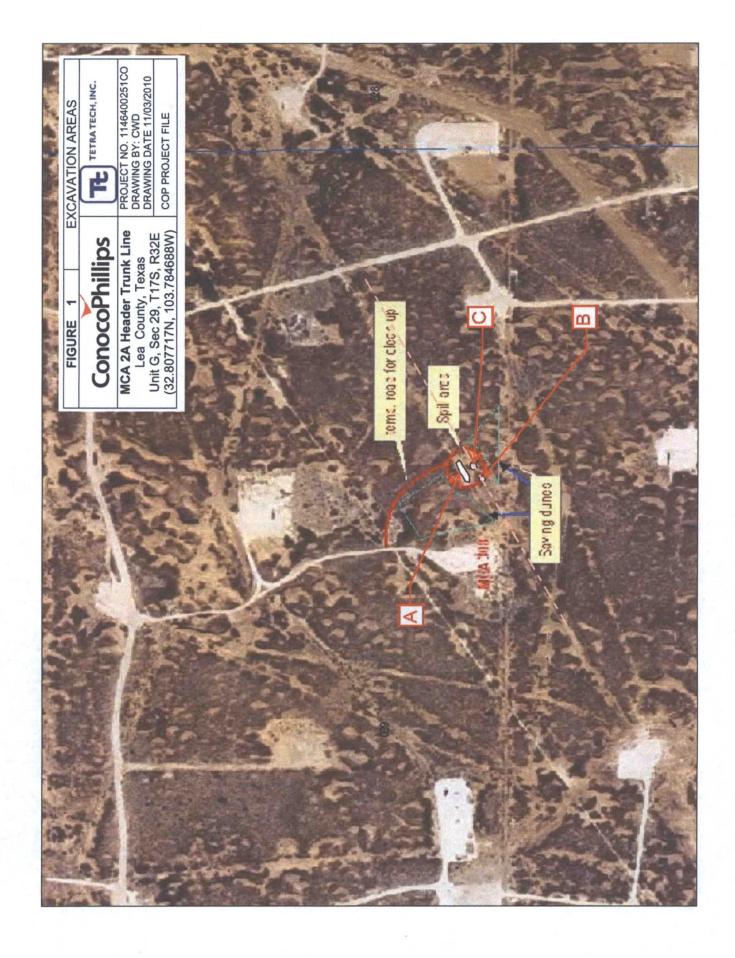
Tetra Tech

Digitally signed by Charles Durrett Charles Durrett Dite: --Charles Durrett on Tetra Tech, inc., ou, email=-charles Durrett, on Tetra Tech, inc., ou, Date: 2010.11.04 1438:31 -05'00'

Charles Durrett Sr. Project Manager

Attachment





EXCAVATION AREA A







July 23, 2009

August 11, 2010 4" Lines cut in July 2010

August 11, 2010 Clay Barrier



August 12, 2010



EXCAVATION AREA B (No Before Photo)



November 3, 2010 Native Soil Backfill



EXCAVATION AREA C



July 23, 2009

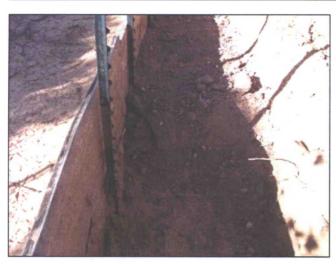
February 11, 2010





August 3, 2010







MCA 2A Header Trunk Line Photo Log

August 4, 2010 Clay Barrier

August 6, 2010

ACCESS ROAD

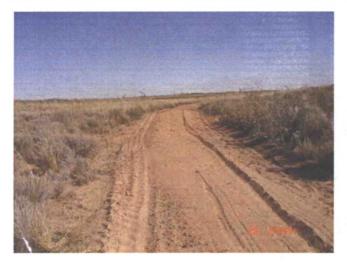


October 29, 2010 Before





MCA 2A Header Trunk Line Photo Log



October 29, 2010 After

APPENDIX

Zenco Laboratories Report August 5, 2010 Zenco Laboratories November 4, 2010

Analytical Report 384302

for

Tetra Tech- Midland

Project Manager: Charles Durrett

MCA 2 A Flowline

05-AUG-10





12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

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

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



05-AUG-10



Project Manager: **Charles Durrett Tetra Tech- Midland** 1910 N. Big Spring Midland, TX 79705

Reference: XENCO Report No: **384302 MCA 2 A Flowline** Project Address: Maljamar, NM

Charles Durrett:

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 384302. 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. 384302 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,

and the

Brent Barron, II Odessa Laboratory Manager

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Sample Cross Reference 384302



Tetra Tech- Midland, Midland, TX

MCA 2 A Flowline

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
W-Wall	S	Aug-04-10 10:00	1 - 4 ft	384302-001
N-Wall	S	Aug-04-10 10:15	1 - 4 ft	384302-002
Floor	S	Aug-04-10 10:30	1 - 4 ft	384302-003
S-Wall	S	Aug-04-10 10:45	1 - 4 ft	384302-004
E- Wall	S	Aug-04-10 11:00	1 - 4 ft	384302-005
RO-1 Surface	S	Aug-04-10 09:00	S - S	384302-006
RO-1 6"	S	Aug-04-10 09:05	6 - 6 In	384302-007
RO-2 Surface	S	Aug-04-10 09:15	S - S	384302-008
RO 2	S	Aug-04-10 09:20	6 - 6 In	384302-009



Client Name: Tetra Tech-Midland Project Name: MCA 2 A Flowline



Project ID: Work Order Number: 384302 Report Date: 05-AUG-10 Date Received: 08/04/2010

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-817540 Percent Moisture None

Batch: LBA-817587 Anions by E300 None



Certificate of Analysis Summary 384302 Tetra Tech- Midland, Midland, TX Project Name: MCA 2 A Flowline



Contact: Charles Durrett Project Location: Maljamar, NM Project Id:

Date Received in Lab: Wed Aug-04-10 02:15 pm Report Date: 05-AUG-10

TITLE Commenter and the state of the state o					Project Manager: Brent Barron, II	Brent Barron, II	
	Lab Id:	384302-001	384302-002	384302-003	384302-004	384302-005	384302-006
Andrate Downseted	Field Id:	W-Wall	N-Wall	Floor	S-Wall	E- Wall	RO-1 Surface
naicanhay sistinuy	Depth:	1-4 ft	1-4 ft	1-4 ft	1-4 ft	1-4 ft	S-S
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Aug-04-10 10:00	Aug-04-10 10:15	Aug-04-10 10:30	Aug-04-10 10:45	Aug-04-10 11:00	Aug-04-10 09:00
Anions by E300	Extracted:						
	Analyzed:	Aug-04-10 14:24	Aug-04-10 14:24	Aug-04-10 14:24	Aug-04-10 14:24	Aug-04-10 14:24	Aug-04-10 14:24
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		ND	ND 4.29	45.3 4.34	84.2 4.29	ND 4.27	ND 4.34
Percent Moisture	Extracted:						
	Analyzed:	Aug-05-10 08:53	Aug-05-10 08:53	Aug-05-10 08:53	Aug-05-10 08:53	Aug-05-10 08:53	Aug-05-10 08:53
	Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		1.47 1.00	2.09 1.00	3.23 1.00	2.06 1.00	1.59 1.00	3.16 1.00

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

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Odessa Laboratory Manager Brent Barron, II



Certificate of Analysis Summary 395847 Tetra Tech-Midland, Midland, TX Project Name: MCA 2A Trunkline



Project Id: 114.6400314 Contact: Charles Durrett Project Location:

Date Received in Lab: Wed Nov-03-10 01:00 pm Report Date: 04-NOV-10

					Project Manager: Brent Barron, II	Brent Barron, 11	
	Lab Id:	395847-001	395847-002	395847-003	395847-004		
Andreis Domocrad	Field Id:	East	West	North	Floor		
naisanhay sistinut	Depth:	3 ft	3 ft	3 ft	3 ft		
	Matrix:	SOIL	SOIL	SOIL	SOIL		
	Sampled:	Nov-03-10 09:30	Nov-03-10 09:40	Nov-03-10 09:50	Nov-03-10 10:00		
Anions by E300	Extracted:						
	Analyzed:	Nov-03-10 16:28	Nov-03-10 16:28	Nov-03-10 16:28	Nov-03-10 16:28		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		48.6 4.27	51.1 4.34	5.88 4.26	ND 4.32		
Percent Moisture	Extracted:						
	Analyzed:	Nov-04-10 08:15	Nov-04-10 08:15	Nov-04-10 08:15	Nov-04-10 08:15		
	Units/RL:	% RL	% RL	% RL	% RL		
Percent Moisture		1.54 1.00	3.30 1.00	1.42 1.00	2.77 1.00		

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Odessa Laboratory Manager Brent Barron, II



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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9701 Harry Hines Blvd, Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



BS / BSD Recoveries



Project Name: MCA 2A Trunkline

Work Order #: 395847 Analyst: LATCOR Lab Batch ID: 830423 Sample: 830423-1-BKS

Date Prepared: 11/03/2010

Batch #: 1

Project ID: 114.6400314 Date Analyzed: 11/03/2010 Matrix: Solid

Units: mg/kg		BLANF	K /BLANK S	PIKE / B	LANK S	3LANK /BLANK SPIKE / BLANK SPIKE DUPLICATE		RECOVE	RECOVERY STUD	Y	
Anions by E300	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	:	[B]	[C]	[D]	[E]	Result [F]	[<u>G</u>]				
Chloride	ND	10.0	9.15	92	10	9.44	94	3	75-125	20	

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



Form 3 - MS Recoveries



Project Name: MCA 2A Trunkline

Work Order #: 395847 Project ID: 114.6400314 Lab Batch #: 830423 Date Prepared: 11/03/2010 Analyst: LATCOR Date Analyzed: 11/03/2010 QC- Sample ID: 395840-001 S Batch #: 1 Matrix: Soil Reporting Units: mg/kg MATRIX / MATRIX SPIKE RECOVERY STUDY Parent **Inorganic Anions by EPA 300** Spiked Sample Control Sample Spike Result %R Limits Flag Result Added %R [C] [D] [A] [B] Analytes Chloride 5550 2060 7480 94 75-125

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

BRL - Below Reporting Limit



Sample Duplicate Recovery

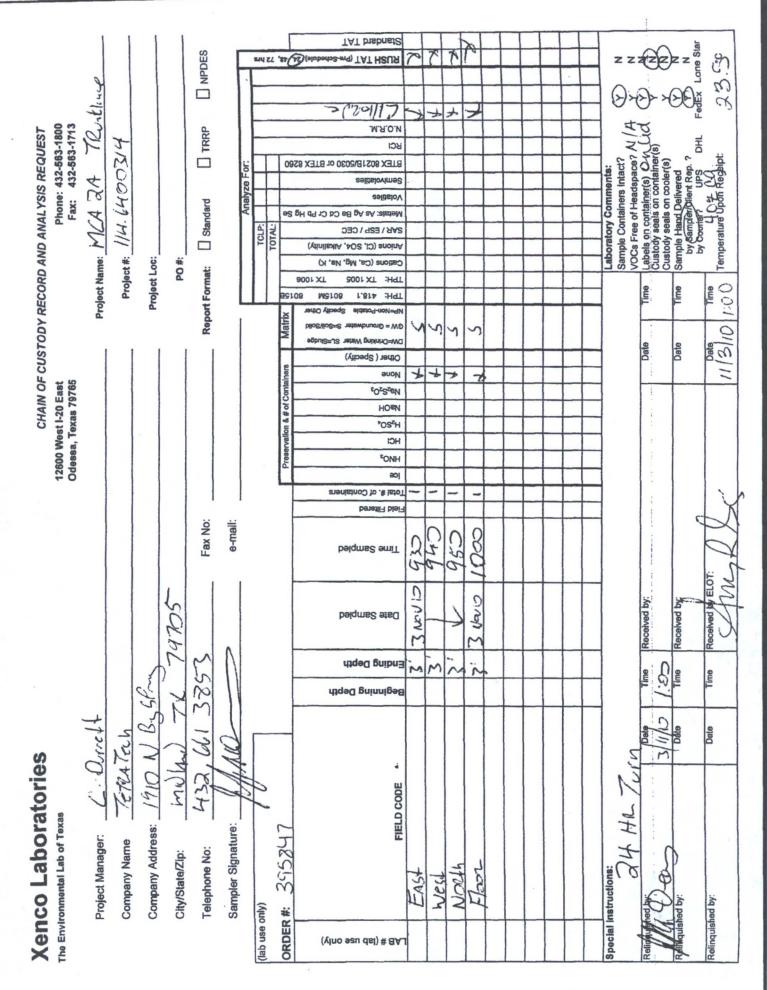


Project Name: MCA 2A Trunkline

Work Order #: 395847

Lab Batch #: 830423	Project ID: 114.6400314
Date Analyzed: 11/03/2010	Date Prepared: 11/03/2010 Analyst: LATCOR
QC- Sample ID: 395840-001 D	Batch #: 1 Matrix: Soil
Reporting Units: mg/kg	SAMPLE / SAMPLE DUPLICATE RECOVERY
Anions by E300	Parent Sample ResultSample DuplicateControl Limits[A]Result%RPD
Analyte	[B]
Chloride	5550 5650 2 20
Lab Batch #: 830422	
Date Analyzed: 11/04/2010	Date Prepared: 11/04/2010 Analyst: JLG
QC- Sample ID: 395757-001 D	Batch #: 1 Matrix: Soil
QC- Sample ID: 395757-001 D Reporting Units: %	Batch #: 1 Matrix: Soil SAMPLE / SAMPLE DUPLICATE RECOVERY

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





1 1

XENCO Laboratories

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

Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist Document No.: SYS-SRC Revision/Date: No. 01, 5/27/2010 Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

client: Setra Sich	
Date/Time: 11/3/10 1:00	
Lab ID #: 395847	
Initials:	
	Sample Receipt Checklist

Initials:			1 - 1	
Sample Receipt Che	cklist	AS	11 /3/ 10	
1. Samples on ice?	Blue	Water	(No)	
2. Shipping container in good condition?	Yes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	(N/A)	
4. Chain of Custody present?	(Yes)	No		
5. Sample instructions complete on chain of custody?	Yes	No		
6. Any missing / extra samples?	Yes	(No)		
7. Chain of custody signed when relinquished / received?	(Yes)	No		
8. Chain of custody agrees with sample label(s)?	(Yes)	No		
9. Container labels legible and intact?	Yes	No		
10. Sample matrix / properties agree with chain of custody?	(Yes)	No ·		
11. Samples in proper container / bottle?	Yes	No		
12. Samples properly preserved?	Yes	No	N/A	
13. Sample container intact?	Yes	No		
14. Sufficient sample amount for indicated test(s)?	(Yes)	No		
15. All samples received within sufficient hold time?	(Yes)	No		
16. Subcontract of sample(s)?	Yes	No	(N/A)	
17. VOC sample have zero head space?	Yes	No	(N/A)	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 N	ю.	Cooler 5 No.	
Ibs 24 10 Ibs °C Ibs	°C Ibs	°C	lbs	°C
23.5 Nonconformance Docur	nentation			

Nonconformance Documentation

Contact: Contacted by: Date/Time: Regarding: Corrective Action Taken:

condition acceptable by NELAC 5.5.8.3.1.a.1.

Initial and Backup Temperature confirm out of temperature conditions

Client understands and would like to proceed with analysis



Contact: Charles Durrett

Project Id:

Certificate of Analysis Summary 384302 Tetra Tech- Midland, Midland, TX Project Name: MCA 2 A Flowline



Date Received in Lab:	Date Received in Lab: Wed Aug-04-10 02:15 pm
Report Date: 05-AUG-10	05-AUG-10
Ducion Managene Drant Damon II	Drant Dornon II

Project Location: Maljamar, NM					Keport Date: UD-AUU-10	
					Project Manager: Brent Barron, II	
	Lab Id:	384302-007	384302-008	384302-009		
Andreis Domoctod	Field Id:	RO-1 6"	RO-2 Surface	RO 2		
naisanhan mennu	Depth:	6-6 In	S-S	6-6 In		
	Matrix:	SOIL	SOIL	SOIL		
	Sampled:	Aug-04-10 09:05	Aug-04-10 09:15	Aug-04-10 09:20		
Anions by E300	Extracted:					
	Analyzed:	Aug-04-10 14:24	Aug-04-10 14:24	Aug-04-10 14:24		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		ND 4.32	39.8 4.39	120 9.34		
Percent Moisture	Extracted:					
	Analyzed:	Aug-05-10 08:53	Aug-05-10 08:53	Aug-05-10 08:53		
	Units/RL:	% RL	% RL	% RL		
Percent Moisture		2.75 1.00	4.26 1.00	10.1 1.00		

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

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Odessa Laboratory Manager Brent Barron, II



Flagging Criteria

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

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit

PQL Practical Quantitation Limit

* Outside XENCO's scope of NELAC Accreditation.

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



BS / BSD Recoveries



Project Name: MCA 2 A Flowline

Work Order #: 384302 Analyst: LATCOR Lab Batch ID: 817587

Date Prepared: 08/04/2010

Batch #: 1

Sample: 817587-1-BKS

Project ID: Date Analyzed: 08/04/2010 Matrix: Solid

Units: mg/kg		BLANI	K /BLANK S	PIKE / B	LANK S	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE	ICATE F	RECOVE	RECOVERY STUDY	Y	\square
Anions by E300	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Chloride	ND	10.0	9.42	94	10	9.47	95	1	75-125	20	

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



Form 3 - MS Recoveries



Project Name: MCA 2 A Flowline

Work Order #: 384302						
Lab Batch #: 817587		Project ID	:			
Date Analyzed: 08/04/2010	Date Prepared: 08/04/2010	Analyst:	LATCOR			
QC- Sample ID: 383909-001 S	Batch #: 1	Matrix:	Soil			
Reporting Units: mg/kg	MATRIX / MA	MATRIX / MATRIX SPIKE RECOVERY STUDY				
Inorganic Anions by EPA 300	Parent Sample Spike Result Added	Spiked Sample Result %R [C] [D]	Control Limits %R	Flag		
Analytes	[A] [B]					
Chloride	ND 100	81.2 81	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



Sample Duplicate Recovery

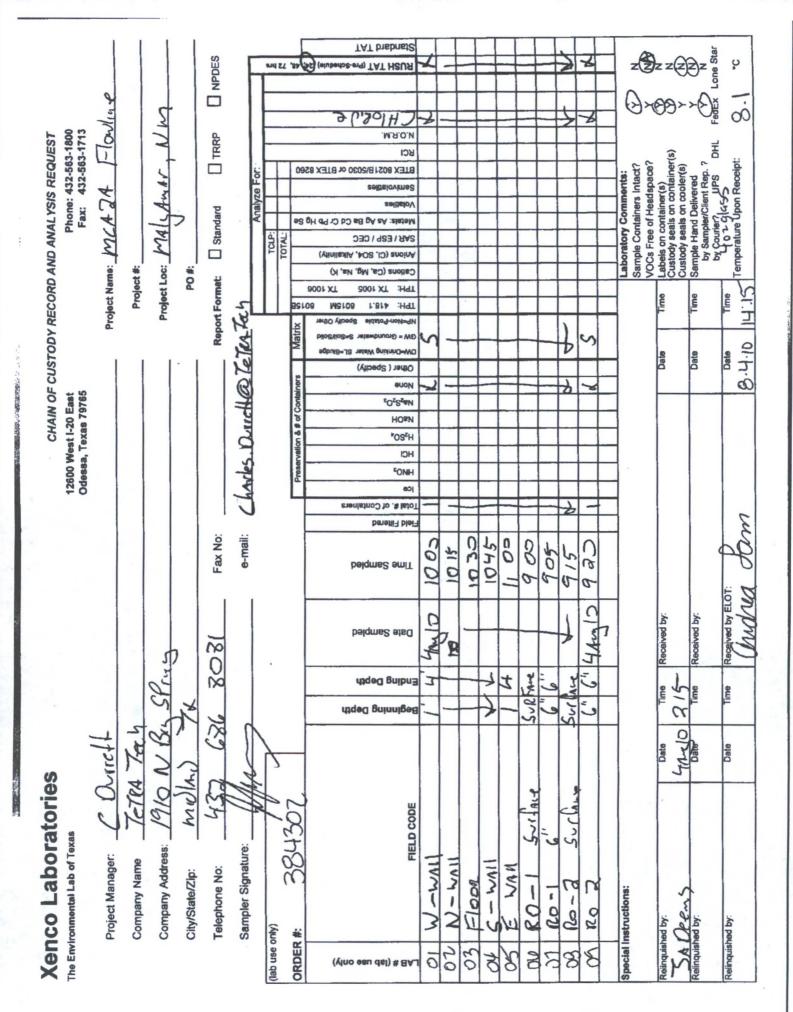


Project Name: MCA 2 A Flowline

Work Order #: 384302

Lab Batch #: 817587	Project ID:				
Date Analyzed: 08/04/2010 Date Prepa	red: 08/04/2010) Anal	lyst:LATC	OR	
QC- Sample ID: 383909-001 D Bat	ch #: 1	Mat	rix: Soil		
Reporting Units: mg/kg	SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Anions by E300	Parent Sample Result [A]	Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Chloride	ND	ND	NC	20	
Lab Batch #: 817540					
Date Analyzed: 08/05/2010 Date Prepa	Date Prepared: 08/05/2010 Analyst: JLG				
Dute Analyzeu. oor op 2010	rea: 08/03/2010	Anal	yst.JLU		
	h #: 1		rix: Soil		
	h #: 1		rix: Soil	ATE REC	OVERY
QC- Sample ID: 384149-001 D Bate	h #: 1	Mat	rix: Soil	ATE RECO Control Limits %RPD	OVERY Flag

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



Page 11 of 12



XENCO Laboratories Atlanta, Boca Raton, Corpus Christi, Dallas Houston, Miami, Odessa, Philadelphia

Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist Document No.: SYS-SRC Revision/Date: No. 01, 5/27/2010 Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client:	etra Tech	
Date/Time:	8.4.10 14:15	
Lab ID # :	384302	
Initials:	AL	

Sample Receipt Checklist

1. Samples on ice?		Blue	Water	No	
2. Shipping container in good condition?		Yes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?		Yes	No	(N/A)	
4. Chain of Custody present?		Tes	No		
5. Sample instructions complete on chain of custody?		Yes	No		
6. Any missing / extra samples?		Yes	No		
7. Chain of custody signed when relinquished / received?		Yes	No		
8. Chain of custody agrees with sample label(s)?		Yes	No		
9. Container labels legible and intact?		Yes	No		
10. Sample matrix / properties agree with chain of custody?		Yes	No		
11. Samples in proper container / bottle?		Yes	No		
12. Samples properly preserved?		Yes	No	N/A	
13. Sample container intact?		Yes	No		
14. Sufficient sample amount for indicated test(s)?		(Yes)	No		
15. All samples received within sufficient hold time?		Yes	No		
16. Subcontract of sample(s)?		Yes	No	(N/A)	
17. VOC sample have zero head space?		Yes	No	(N/A)	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.		Cooler 4 No.		Cooler 5 No.	
Ibs 8. °C Ibs °C Ibs	°C	lbs	°C	lbs	°C

Nonconformance Documentation

Contact:_ Regarding: Contacted by: Date/Time:_____

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

Client understands and would like to proceed with analysis

Analytical Report 395847

for Tetra Tech- Midland

Project Manager: Charles Durrett

MCA 2A Trunkline

114.6400314

04-NOV-10



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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 (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

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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)



04-NOV-10



Project Manager: **Charles Durrett Tetra Tech- Midland** 1910 N. Big Spring Midland, TX 79705

Reference: XENCO Report No: 395847 MCA 2A Trunkline Project Address:

Charles Durrett:

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 395847. 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. 395847 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,

to the

Brent Barron, II Odessa Laboratory Manager

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Sample Cross Reference 395847



Tetra Tech- Midland, Midland, TX

MCA 2A Trunkline

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
East	S	Nov-03-10 09:30	3 ft	395847-001
West	S	Nov-03-10 09:40	3 ft	395847-002
North	S	Nov-03-10 09:50	3 ft	395847-003
Floor	S	Nov-03-10 10:00	3 ft	395847-004



Client Name: Tetra Tech- Midland Project Name: MCA 2A Trunkline



 Project ID:
 114.6400314

 Work Order Number:
 395847

Report Date: 04-NOV-10 Date Received: 11/03/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None