

AE Order Number Banner

Report Description

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App Number: pEEM0112359909

NM2 - 8

XTO ENERGY, INC.

68

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

State of New Mexico Energy Minerals and Natural Resources

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

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

Release Notification and Corrective Action

	OPF	RA	ГOR		Initia	al Report Final Report	
Name of Company: XTO Energy, Inc.		Contact: James McDaniel					
Address: 382 Road 3100, Aztec, New Mexico 87410	Telepl	none l	No.: (505) 333-3	3701			
Facility Name: Central Evaporation Pond #1 (Permit NM-2-008)	Facilit	Facility Type: Evaporation Pond					
Surface Owner: Federal Mineral Ow	ner:				Lease N	Vo.:	
LOCAT	ION OF	REI	LEASE				
	North/South		Feet from the	East/We	est Line	County San Juan	
Latitude: 36.94	7107 Lo	ngitu	de: -107.717228	3			
per la constant de la	RE OF I	REL	EASE				
Type of Release: Produced Water			Release: Unknow			Recovered: None	
Source of Release: Evaporation Pond	1	and I	lour of Occurrent		Date and I	Hour of Discovery:	
Was Immediate Notice Given?	If Y		Whom?			OIL CONS. DIV DIST.	
☐ Yes ☐ No ☒ Not Requ			T				
By Whom? Was a Watercourse Reached?		and I	lour: olume Impacting	the Wetare		MAR 1 1 2013	
Yes No	11 11	55, V	nume impacting	me watere	ourse.	2 2010	
If a Watercourse was Impacted, Describe Fully.*	······						
Describe Cause of Problem and Remedial Action Taken.* On May 13, 2011, LT Environmental collected closure samples bene Results Report. The samples were analyzed for each of the constitute for samples collected in sections F,G,H and I returned results above Plan. This confirmed that a release had occurred at this location. The falcak in the pond liner. Chlorides collected from sections A, B C standard for the determination of a release. The site was ranked a 10 Releases due to a drainage at less than 1,000 feet from the location. BTEX. Describe Area Affected and Cleanup Action Taken.*	ents outlined the 250 mg/l ne chlorides and D, which according t	in the cg Spi found ch wer o the ?	closure procedur Il Confirmation re in sections F.G.H e beneath the por NMOCD Guidelin	res for a ce esults outli I and I was and liner, re- nes for the	ntralized ined in the s the resulturned re- Remedia	waste facility. Chloride results e attached Approved Closure lts of overspray, and not a result sults below the 250 mg/kg tion of Leaks, Spills and	
The analytical results are attached in the <i>Soil Sampling Results Repo</i> for the Remediation of Leaks, Spills and Releases. The NMOCD Gostandard for chlorides, and based on a depth to groundwater of over health and the environment.	iidelines for	the Re	emediation of Lea	aks, Spills	and Relea	ases does not cite a closure	
I hereby certify that the information given above is true and complet regulations all operators are required to report and/or file certain relepublic health or the environment. The acceptance of a C-141 report should their operations have failed to adequately investigate and remor the environment. In addition, NMOCD acceptance of a C-141 refederal, state, or local laws and/or regulations.	ase notificat by the NMC ediate conta	ions a CD m minati	nd perform correct arked as "Final R on that pose a thr	ctive action Report" doe reat to grou	ns for rele es not reli and water	eases which may endanger leve the operator of liability r, surface water, human health	
Signature: Printed Name: James McDaniel, CHMM #15676 Title: EH&S Supervisor	18 miles	8	OIL CON District Supervis	sor: More	TION Appiration	DIVISION Date:	
E-mail Address: James McDaniel@xtoenergy.com Date: 3/11/2013 Phone: 505-333-3701	S.		f Approval:			Attached	
1 1000. 505-333-3701					-		

n JK 1307953427

SITE NAME:

CENTRALIZED EVAPORATION POND #1 SECTION 31, TOWNSHIP 32N, RANGE 8W SAN JUAN COUNTY, NEW MEXICO OCD PERMIT NO. NM-02-0008

SUBMITTED TO:

MR. BRAD JONES
NEW MEXICO OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DRIVE
SANTA FE, NEW MEXICO 87505
(505) 476-3487

SUBMITTED BY:

XTO ENERGY, INC. SAN JUAN DIVISION 382 ROAD 3100 AZTEC, NEW MEXICO 87410 (505) 333-3100

MARCH 11, 2013

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SCOPE OF C	CLOSURE ACTIVITIES	1
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Attachments:	Attachment #1 February 17, 2011 Letter from NMOCD Attachment #2 Reclamation Plan Attachment #3 Photo Documentation Attachment #4 LT Environmental Sampling Report	

INTRODUCTION

The Centralized Evaporation Pond #1 (Pond #1) was originally permitted by the New Mexico Oil Conservation Division (OCD) for Koch Exploration in July of 1998, OCD Permit No. NM-02-0008. The pond lease and permit was acquired by XTO Energy, Inc. (XTO) in 2009 from El Paso Exploration and Production Company, and approval to transfer the permit was issued in March of 2009. The evaporation pond was used to dispose of produced water from the Gardner C #2, Gardner C #3, Gardner C #4 and Gardner C #6 well sites by previous operators. These wells are now owned and operated by XTO, however Pond #1 has not been used for disposal by XTO. XTO notified OCD in April 2009 of plans for evaporating the fluid in the pond in order to clean and inspect the liner as part of our routine operations and maintenance program. During inspection and maintenance, obsolete, damaged and non-operational equipment was removed from the location. Based on completion of this process XTO has decided to close Pond #1. A closure plan for this evaporation pond was submitted to your office and approved on February 17, 2011.

SCOPE OF CLOSURE ACTIVITIES

The purpose of this closure report is to provide details of the closure activities performed by XTO for Evaporation Pond #1 located in Section 31, Township 32N, Range 8W.

1) XTO notified the division's environmental bureau on April 28, 2009 of the cessation of operations at Pond #1 as part of our plans for evaporating the fluid in the pond in order to clean and inspect the liner. This closure plan and proposed schedule has been submitted to the division for adequacy in accordance with Paragraph 1 of Subsection A of NMAC 19.15.36.18.

This closure plan was approved by the OCD on February 17, 2011.

2) XTO is requesting an exception to Paragraph 2 of Subsection A of NMAC 19.15.36.18, the division's 60 days for notification of modifications of the closure plan and proposed schedule, based on the time of year and expected weather impediments. Winter precipitation, snow melt and Federal area closures will hinder closure operations.

Closure activities occurred at this site from April 4, 2011 through October 9, 2012

3) However, if the division does not notify XTO of additional closure requirements within 60 days as provided, the operator may proceed with closure in accordance with the approved closure plan; provided that the director, for good cause, extend the time for the division's response for an additional period not to exceed 60 days by written notice to XTO in accordance with Paragraph 3 of Subsection A of NMAC 19.15.36.18.

XTO is in receipt of the additional closure requirements outlined in the February 17, 2011 letter from the OCD. This letter is enclosed as Attachment #1.

4) XTO shall be entitled to a hearing concerning a modification or additional requirement the division seeks to impose if it files an application for a hearing within 10 days after

Evaporation Pond Closure Report XTO Energy, Inc. Centralized Evaporation Pond #1 OCD Permit No. NM-02-0000 August 15, 2011 Page 2

receipt of written notice of the proposed modifications or additional requirements in accordance with Paragraph 4 of Subsection A of NMAC 19.15.36.18.

A hearing was not requested by XTO Energy, Inc.

5) Closure shall proceed in accordance with the approved closure plan and schedule and modifications or additional requirements the division imposes. During closure operations XTO shall maintain the surface waste management facility to protect fresh water, public health, safety and the environment in accordance with Paragraph 5 of Subsection A of NMAC 19.15.36.18.

Closure activities were performed in accordance with the approved closure plan.

6) Upon completion of closure, XTO shall re-vegetate the site in accordance with the included Reclamation Plan. The surface owner of this site is the Bureau of Land Management (BLM) and the included Reclamation Plan conforms to BLM requirements and is in accordance with Paragraph 6 of Subsection A of NMAC 19.15.36.18.

XTO has reclaimed the pond in accordance with BLM standards and as outlined in, Attachment #2.

7) All water and sediment in the pond has been removed and disposed of at an OCD permitted disposal facility in order to inspect the liner as per our agreement with OCD dated April 2009 and in accordance with Paragraph 1 Subsection E of NMAC 19.15.36.18.

All water in Evaporation Pond #1 was removed and disposed of at Agua Moss' OCD permitted injection facility, OCD permit number NMOCD-07-162. Approximately 285 yards of sediments and 1150 barrels of sludge were disposed of at CRI's OCD permitted landfill, OCD permit number NM-01-006.

8) All liners and bedding material will be inspected for re-use in other Oil and Gas operations (with OCD approval). Portions of the liner and bedding material that are deemed unusable will be properly cleaned and disposed of per 19.15.9.712 NMAC at the Bondad Landfill, located in La Plata County, Colorado (due to location) or the San Juan County Landfill, located in San Juan County, New Mexico. Concrete used to make up the leak detection system footer will be broken up and screened for Naturally Occurring Radioactive Material before being hauled to the Bondad Landfill for disposal.

All liner and bedding material was removed and disposed of at the Bondad Landfill. Upon removal of the sump area, it was discovered that there was no concrete in the leak detection area. The leak detection was made up of an 8" PVC connected to the 1" leak detection piping running beneath the pond liner. Please see the photographs presented in *Attachment #3*.

9) The soil beneath the evaporation pond liner, pond sidewalls, liquids receiving and treatment area, leak detection area, and area outside the berm will be sampled, by a third party contractor, into 4-ounce glass jars, capped headspace free, and analyzed for BTEX via USEPA Method 8021B, and for total petroleum hydrocarbons (TPH) via USEPA

Evaporation Pond Closure Report XTO Energy, Inc. Centralized Evaporation Pond #1 OCD Permit No. NM-02-0008 August 15, 2011 Page 3

Method 418.1, total chlorides, and 3103 Subsection A and Subsection B constituents in accordance with NMAC 20.6.2.3103AB. Samples will also be collected from the natural background (for comparative purposes), to be analyzed for metals, and other inorganics listed in Subsections A and B of NMAC 20.6.2.3103. Standard metals will be analyzed via USEPA Method 6010B, Mercury will be analyzed via USEPA Method 7470 and cyanide will be analyzed via USEPA Method 9012B. Fluoride, Nitrate, Sulfate and Chlorides will be analyzed via USEPA Method 9056. Polychlorinated Biphenyls (PCB) will be analyzed via USEPA Method 8082, Volatile Organic Compounds (VOCs) will be analyzed via USEPA Method 8260B, Poly Aromatic Hydrocarbons (PAH) will be analyzed via USEPA Method 8310, Ethylene Dibromide (EDB) will be analyzed via USEPA Method 8011, Phenols will be analyzed via USEPA Method 9066, Total Dissolved Solids (TDS) will be analyzed via USEPA Method 2540C, Uranium will be analyzed via USEPA Method 200.8, and Radium 226/228 will be analyzed via USEPA Method 7500.

Individual grab samples will be obtained from any areas (beneath the evaporation pond liner, pond sidewalls, liquids receiving and treatment area, leak detection area, and area outside the berm) with visually obvious staining or moist soil. If the liner is obviously damaged, or there is any indication of a release, a subsurface investigation will be conducted.

Please see attached closure sampling report from LT Environmental (LTE) as Attachment #4. The metals results presented in Attachment #4 were analyzed using the RCRA 8 metals procedure for total metals. As a typical rule of thumb, TCLP metals are typically 1/20th of the metals found during total metals analysis.

10) Samples will be collected in accordance with the USEPA SW-846 protocols. Four (4) soil samples will be collected from beneath the pond and along the pond sidewalls, one in each quadrant of a grid pattern. Each sample will be a 10 point composite as shown on Figure 3. Each grid will measure approximately 160' x 160'. The evaporation pond is approximately 315' x 315'. One additional composite sample will be collected beneath the concrete footer of the leak detection system as well. One background sample of virgin, undisturbed soil will be analyzed for comparative purposes. The sample results will be submitted to the OCD Santa Fe office in accordance with Paragraphs 4-5 of Subsection E of NMAC 19.15.36.18.

A sample grid map is included in the LTE Sampling Report, Attachment #4, as Figure #2.

11) Considerations: This site has an OCD Hazard Ranking of 10 based on depth to groundwater of over 100 feet, distance to a water well of over 1,000 feet, and horizontal distance to surface water of over 200 feet; see Figure 1, Vicinity Map. Sample results above 100 mg/kg TPH, 10 mg/kg benzene and 50 mg/kg BTEX standards will be excavated and a new sample collected as per OCD Guidelines for the Remediation of Leaks, Spills and Releases. Should all closure samples return results below the closure

Evaporation Pond Closure Report XTO Energy, Inc. Centralized Evaporation Pond #1 OCD Permit No. NM-02-0008 August 15, 2011 Page 4

standards determined for this site, no excavation will be required. Soil samples will be collected and analyzed for a chloride standard of 250 mg/kg or background to determine if a release has occurred.

Each of the Evaporation Pond closure samples were found in the laboratory to be below the closure standards outlined in the OCD Guidelines for the Remediation of Leaks, Spills and Releases.

- 12) Once laboratory analysis indicates closure standards have been achieved for the site, the evaporation pond will be backfilled using non-waste containing soil, and re-contoured and re-vegetated pursuant to the attached **Grading Plan** and **Reclamation Plan**. These plans conform to NMAC 19.15.36.18 and BLM requirements.
- 13) The facility has been reclaimed pursuant to the attached Grading plan and Reclamation Plan. The reclamation plan includes soil amendments approved by the BLM to facilitate growth at this location. The site has been seeded with a seed mixture containing a minimum of three (3) native plant species, including at least one (1) native grass, not including noxious weeds. The seed mixture analysis and the invoice for seeding from Ridgeline Seeding and Reclamation, Inc. have been attached for your reference.
- 14) The post-closure care period for the evaporation pond closure shall be three years if XTO has achieved clean closure. During that period XTO or another responsible entity shall regularly inspect and maintain the required re-vegetation. If there has been a release to the vadose zone or to groundwater, then XTO shall comply with applicable requirements of 19.15.29 and 19.15.30 NMAC in accordance with Subsection F on NMAC 19.15.36.18.

No release has been confirmed in the Vadose Zone.

15) Once all closure activities have been completed, a report detailing on-site activities and sampling results will be prepared and submitted to OCD environmental bureau in Santa Fe.

This report is intended to be the above mentioned closure report.

XTO Energy, Inc. has completed closure activities at Evaporation Pond #1 located in Section 31, Township 32N, Range 8W, San Juan County, New Mexico. Pending approval of this closure report, Evaporation Pond #1 will no longer be permitted as a Centralized Waste Facility regulated by the OCD.

James McDaniel, CHMM #15676

EH&S Supervisor XTO Energy, Inc.



2243 Main Avenue, Suite 3 Durango, Colorado 81301 T 970.385.1096 / F 970.385.1873

June 21, 2011

Mr. James McDaniel XTO Energy, Inc. 382 CR 3100 Aztec, NM 87410

RE: Soil Sampling Results
XTO Energy, Inc.
Centralized Evaporation Pond #1 Permit NM-02-0008
San Juan County, New Mexico

Dear Mr. McDaniel:

LT Environmental, Inc. (LTE) is pleased to provide XTO Energy, Inc. (XTO) with this letter summarizing the results of soil sampling activities at the Centralized Evaporation Pond #1, permit number NM-02-0008 (Site). The Site is located in the northeast ¼ of the northwest ¼ of Section 31 in Township 32 North, Range 8 West, San Juan County, New Mexico (Figure 1). LTE collected soil samples for closure of the evaporation pond, which was used by previous operators to dispose of produced water generated at nearby natural gas wells.

SOIL SAMPLING

XTO removed all water and sediment from the pond, the pond liner, and any other facility equipment prior to sampling. On May 12 and May 16, 2011, LTE collected ten composite soil samples and one background soil sample from locations specified in the January 13, 2011 closure plan submitted by XTO to the New Mexico Oil Conservation Division (NMOCD) and approved by the NMOCD on February 17, 2011. LTE conducted a visual investigation of the Site and did not observe any stained or moist soil from which to collect additional samples.

Composite soil sample locations are shown in Figure 2. Four ten-point composite samples were collected from beneath the former pond liner including the bottom and side walls of the pond (Samples A, B, C, and D). Five-point composite samples were collected beneath the former leak detection sump (Sample E), beneath the former liquids receiving and treatment area (Sample F), and from four areas outside of the former berm (Samples G, H, I, and J). A discrete background sample was collected from the ground surface outside of the facility perimeter in the estimated up-gradient direction (north). For each composite soil sample, LTE deposited the appropriate number of aliquots of soil into plastic bags, thoroughly mixed the contents and sampled into 4-ounce glass jars. The soil samples were stored on ice and shipped in a cooler to Environmental Science Corporation in Mt. Juliet, Tennessee, and Hall Environmental Analysis Laboratory in Albuquerque, New Mexico following strict chain of custody procedures. The soil samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes by United States Environmental Protection Agency (USEPA) Method 8021B and total petroleum hydrocarbons by USEPA Method 418.1. Additionally, the following constituents listed in Subsections A and B of

20.6.2.3103 of the New Mexico Administrative Code were analyzed based on knowledge of process: arsenic, barium, cadmium, chromium, cyanide, fluoride, lead, total mercury, nitrate, selenium, silver, uranium, combined radioactivity, copper, iron, manganese, chloride, sulfate, total dissolved solids, zinc, and pH.

RESULTS

Table 1 lists the soil analytical results determined in the background sample and composite closure samples. The complete laboratory analytical reports are attached as Appendix A.

LTE appreciates the opportunity to provide environmental services to XTO. If you have any questions regarding this report, please contact us at (970) 385-1096.

Sincerely,

LT ENVIRONMENTAL, INC.

Whay L Dan Ashley L. Ager, M.S.

Senior Geologist/Office Manager

Brooke Herb Staff Geologist

Attachments (4)

Figure 1 – Site Location Map

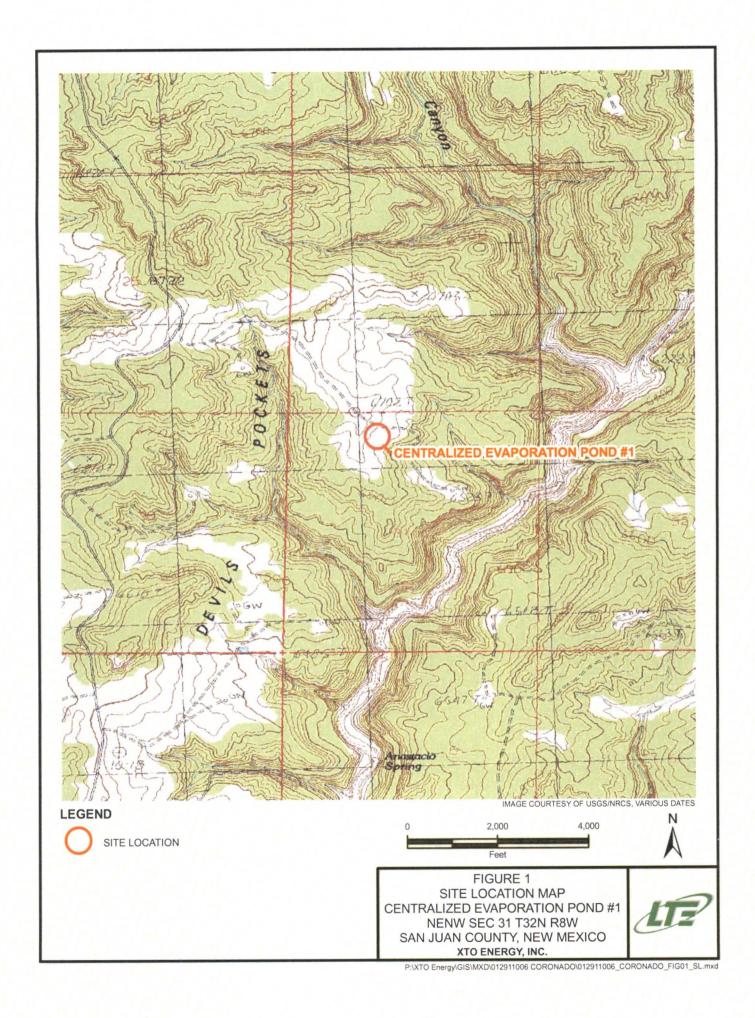
Figure 2 – Soil Sampling Location Map

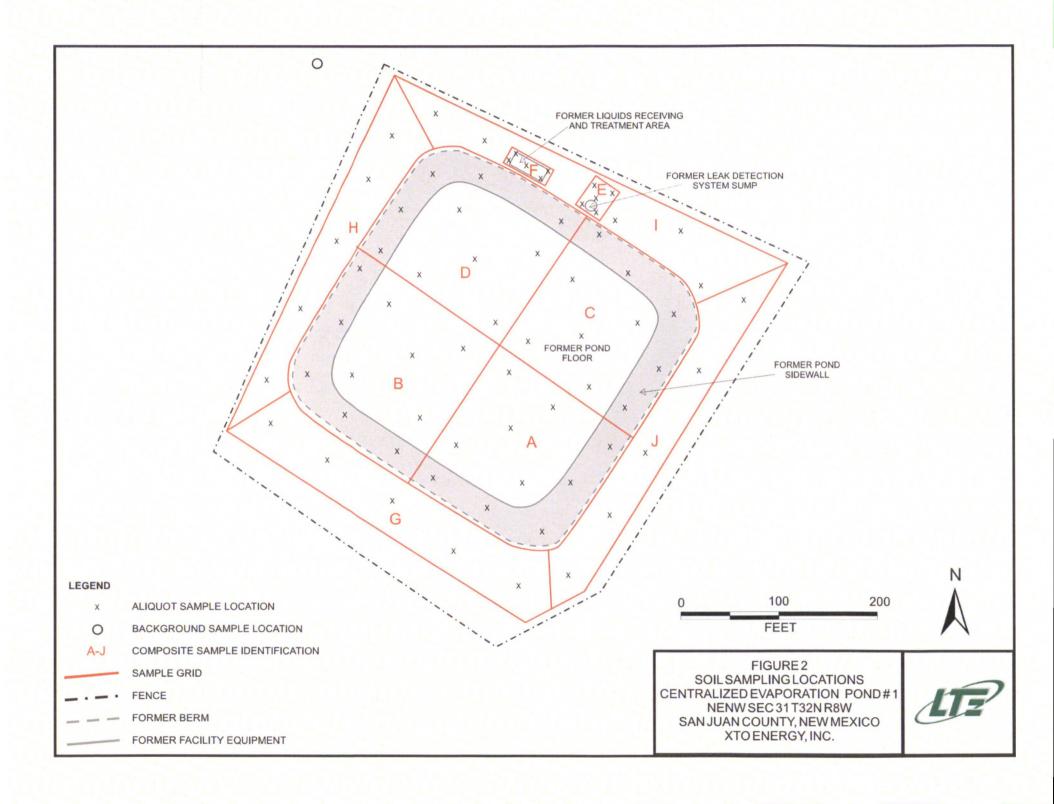
Table 1 - Soil Analytical Results

Appendix A - Laboratory Analytical Reports

FIGURES







TABLE



TABLE 1

SOIL SAMPLE RESULTS
CENTRALIZED EVAPORAVTION POND #1

XTO ENERGY, INC.

San	nple ID	Background	A	В	С	D	E	F	G	Н	I	J
Samp	le Date	5/13/2011	5/13/2011	5/13/2011	5/13/2011	5/13/2011	5/16/2011	5/13/2011	5/13/2011	5/13/2011	5/13/2011	5/13/2011
Analyte	Units											
Benzene	mg/kg	< 0.0026	< 0.0027	< 0.0028	< 0.0027	< 0.0026	< 0.0026	< 0.0026	< 0.0026	< 0.0027	< 0.0026	< 0.0027
Toluene	mg/kg	< 0.026	< 0.027	< 0.028	< 0.027	< 0.026	< 0.026	< 0.026	< 0.026	< 0.027	< 0.026	< 0.027
Ethylbenzene	mg/kg	< 0.0026	< 0.0027	< 0.0028	< 0.0027	< 0.0026	< 0.0026	< 0.0026	< 0.0026	< 0.0027	< 0.0026	< 0.0027
Total Xylene	mg/kg	< 0.0080	<0.0080	< 0.0083	< 0.0080	< 0.0080	< 0.0079	< 0.0077	< 0.0078	< 0.0080	< 0.0078	< 0.0081
Total Petroleum Hydrocarbons	mg/kg	<20	<20	<20	<20	<20	<20	35	<20	46	39	<20
pH	S.U.	7.4	8.8	8.5	8.8	8.5	7.5	9.2	10.0	9.0	7.1	7.7
Total Dissolved Solids	%	94	94	91	94	94	95	97	96	93	96	93
Sulfate	mg/kg	<53	220	400	250	380	540	680	260	340	270	280
Nitrate	mg/kg	<1.1	1.1	9.1	2.3	20.0	4.7	20.0	18.0	27.0	26.0	15.0
Chloride	mg/kg	42	91	240	190	180	150	310	560	330	420	210
Uranium	mg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Arsenic	mg/kg	4.0	1.8	3.3	3.6	2.7	19.0	7.1	7.0	5.3	4.2	1.3
Barium	mg/kg	180	130	250	250	350	380	510	370	220	390	130
Cadmium	mg/kg	< 0.26	< 0.27	< 0.28	< 0.27	< 0.26	0.76	< 0.26	< 0.26	< 0.27	< 0.26	< 0.27
Chromium	mg/kg	11.0	5.1	5.2	5.3	5.4	6.2	5.9	5.5	5.6	6.6	5.2
Cyanide	mg/kg	< 0.26	< 0.27	< 0.28	< 0.27	< 0.26	< 0.26	< 0.26	< 0.26	< 0.27	< 0.26	< 0.27
Fluoride	mg/kg	4.9	16.0	18.0	7.7	9.1	6.7	4.1	11.0	8.2	13.0	11.0
Lead	mg/kg	11.0	8.0	7.9	9.0	9.3	15.0	9.2	9.8	10.0	9.2	8.4
Mercury	mg/kg	0.033	0.022	0.037	0.041	0.039	0.043	0.023	0.037	0.034	0.026	< 0.022
Selenium	mg/kg	<1.1	<1.1	<1.1	<1.1	<1.1	7.5	<1.0	<1.0	<1.1	<1.0	<1.1
Silver	mg/kg	< 0.53	< 0.53	< 0.55	< 0.53	< 0.53	< 0.53	< 0.51	< 0.52	< 0.54	< 0.52	< 0.54
Copper	mg/kg	8.2	13.0	14.0	14.0	15.0	9.3	12.0	14.0	18.0	18.0	17.0
Iron	mg/kg	13,000	10,000	12,000	11,000	12,000	10,000	11,000	12,000	12,000	12,000	12,000
Manganese	mg/kg	240	110	130	100	170	130	160	110	120	180	120
Zinc	mg/kg	37	31	40	42	35	33	31	40	34	41	43
Radium-226	pCi/g	0.889	1.060	0.793	1.080	0.933	1.000	0.600	0.842	0.849	0.943	0.865
Radium -228	pCi/g	0.905	0.871	0.878	1.410	1.340	0.967	1.100	2.010	0.801	1.420	0.953
Combined Radioactivity	pCi/g	1.794	1.931	1.671	2.490	2.273	1.967	1.700	2.852	1.650	2.363	1.818

Notes:

% - percent mg/kg - milligram per kilogram pCi/g - PicoCurries per gram S.U. - Standard unit



APPENDIX A LABORATORY ANALYTICAL REPORTS





12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

James McDaniel XTO Energy - San Juan Division 382 Road 3100 Aztec, NM 87410

Report Summary

Monday May 23, 2011

Report Number: L516328 Samples Received: 05/17/11 Client Project:

Description: CORONADO POND #1

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487 GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140 NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233 AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A, TX - T104704245, OK-9915

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences. Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

May 23,2011

James McDaniel XTO Energy - San Juan Division 382 Road 3100 Aztec, NM 87410

ESC Sample # : L516328-01

Date Received : May 17, 2011 Description : CORONADO POND #1

Site ID : CORONADO POND #1

Sample ID : A

Project # :

Collected By : Brooke Herb Collection Date : 05/13/11 11:23

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride Fluoride Nitrate Sulfate	91. 16. 1.1 220	11. 1.1 1.1 53.	mg/kg mg/kg mg/kg mg/kg	9056 9056 9056 9056	05/18/11 05/18/11 05/18/11 05/18/11	1 1 1
Cyanide	BDL	0.27	mg/kg	9012B	05/20/11	1
рН	8.8		su	9045D	05/18/11	1
Total Solids	94.		%	2540G	05/20/11	1
Mercury	0.022	0.021	mg/kg	7471	05/18/11	1
Arsenic Barium Cadmium Chromium Copper Iron Lead Manganese Selenium Silver Zinc	1.8 130 BDL 5.1 13. 10000 8.0 110 BDL BDL 31.	1.1 0.27 0.27 0.53 1.1 5.3 0.27 0.53 1.1 0.53	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B	05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11	1 1 1 1 1 1 1 1 1
Benzene Toluene Ethylbenzene Total Xylene	BDL BDL BDL BDL	0.0027 0.027 0.0027 0.0080	mg/kg mg/kg mg/kg mg/kg	8021B 8021B 8021B 8021B	05/19/11 05/19/11 05/19/11 05/19/11	5 5 5 5
Surrogate Recovery(%) a,a,a-Trifluorotoluene(PID)	106.		% Rec.	8021B	05/19/11	5

Results listed are dry weight basis. BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

This report shall not be reproduced, except in full, without the written approval from ESC. The reported analytical results relate only to the sample submitted Reported: $05/23/11\ 14:46\ Printed:\ 05/23/11\ 14:46\ L516328-01\ (PH) - 8.8821.2c$



Sample ID

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

May 23,2011

James McDaniel XTO Energy - San Juan Division 382 Road 3100 Aztec, NM 87410

ESC Sample # : L516328-02

Date Received : May 17, 2011 Description : CORONADO POND #1

Site ID : CORONADO POND #1

Project # :

Collected By : Brooke Herb Collection Date : 05/13/11 11:37

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride Fluoride Nitrate Sulfate	240 18. 9.1 400	11. 1.1 1.1 55.	mg/kg mg/kg mg/kg mg/kg	9056 9056 9056 9056	05/18/11 05/18/11 05/18/11 05/18/11	1 1 1
Cyanide	BDL	0.28	mg/kg	9012B	05/20/11	1
рН	8.5		su	9045D	05/18/11	1
Total Solids	91.		96	2540G	05/20/11	1
Mercury	0.037	0.022	mg/kg	7471	05/18/11	1
Arsenic Barium Cadmium Chromium Copper Iron Lead Manganese Selenium Silver Zinc	3.3 250 BDL 5.2 14. 12000 7.9 130 BDL BDL 40.	1.1 0.28 0.28 0.55 1.1 5.5 0.28 0.55 1.1 0.55	mg/kg	6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B	05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Benzene Toluene Ethylbenzene Total Xylene Surrogate Recovery(%)	BDL BDL BDL BDL	0.0028 0.028 0.0028 0.0028	mg/kg mg/kg mg/kg mg/kg	8021B 8021B 8021B 8021B	05/19/11 05/19/11 05/19/11 05/19/11	5 5 5 5
a,a,a-Trifluorotoluene (PID)	107.		% Rec.	8021B	05/19/11	5

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

May 23,2011

James McDaniel XTO Energy - San Juan Division 382 Road 3100 Aztec, NM 87410

ESC Sample # : L516328-03

Date Received : May 17, 2011 Description : CORONADO POND #1

Site ID : CORONADO POND #1

Project # :

Sample ID

Collected By : Brooke Herb Collection Date : 05/13/11 11:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride Fluoride Nitrate Sulfate	190 7.7 2.3 250	11. 1.1 1.1 53.	mg/kg mg/kg mg/kg mg/kg	9056 9056 9056 9056	05/18/11 05/18/11 05/18/11 05/18/11	1 1 1
Cyanide	BDL	0.27	mg/kg	9012B	05/20/11	1
рН	8.8		su	9045D	05/18/11	1
Total Solids	94.		8	2540G	05/20/11	1
Mercury	0.041	0.021	mg/kg	7471	05/18/11	1
Arsenic Barium Cadmium Chromium Copper Iron Lead Manganese Selenium Silver Zinc	3.6 250 BDL 5.3 14. 11000 9.0 1000 BDL BDL 42.	1.1 0.27 0.27 0.53 1.1 5.3 0.27 0.53 1.1 0.53	mg/kg	6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B	05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11	1 1 1 1 1 1 1 1 1 1
Benzene Toluene Ethylbenzene Total Xylene	BDL BDL BDL	0.0027 0.027 0.0027 0.0080	mg/kg mg/kg mg/kg mg/kg	8021B 8021B 8021B 8021B	05/19/11 05/19/11 05/19/11 05/19/11	5 5 5 5
Surrogate Recovery(%) a,a,a-Trifluorotoluene(PID)	107.		% Rec.	8021B	05/19/11	5

Results listed are dry weight basis. BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:

Note:
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L516328-03 (PH) - 8.8@21.2c



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REPORT OF ANALYSIS

May 23,2011

James McDaniel XTO Energy - San Juan Division 382 Road 3100 Aztec, NM 87410

ESC Sample # : L516328-04

Date Received : May 17, 2011 Description : CORONADO POND #1

Site ID : CORONADO POND #1

Sample ID

Project # :

Collected By : Brooke Herb Collection Date : 05/13/11 11:15

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride Fluoride Nitrate Sulfate	180 9.1 20. 380	11. 1.1 1.1 53.	mg/kg mg/kg mg/kg mg/kg	9056 9056 9056 9056	05/18/11 05/18/11 05/18/11 05/18/11	1 1 1
Cyanide	BDL	0.26	mg/kg	9012B	05/20/11	1
Н	8.5		su	9045D	05/18/11	1
Total Solids	94.		%	2540G	05/20/11	1
Mercury	0.039	0.021	mg/kg	7471	05/18/11	1
Arsenic Barium Cadmium Chromium Copper Iron Lead Manganese Selenium Silver	2.7 350 BDL 5.4 15. 12000 9.3 170 BDL BDL 35.	1.1 0.26 0.26 0.53 1.1 5.3 0.26 0.53 1.1 0.53	mg/kg	6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B	05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11	1 1 1 1 1 1 1 1 1
Benzene Toluene Ethylbenzene Total Xylene Surrogate Recovery(%)	BDL BDL BDL	0.0026 0.026 0.0026 0.0080	mg/kg mg/kg mg/kg mg/kg	8021B 8021B 8021B 8021B	05/19/11 05/19/11 05/19/11 05/19/11	5 5 5 5
a,a,a-Trifluorotoluene(PID)	106.		% Rec.	8021B	05/19/11	5

Results listed are dry weight basis. BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

May 23,2011

James McDaniel XTO Energy - San Juan Division 382 Road 3100 Aztec, NM 87410

ESC Sample # : L516328-05

Date Received : May 17, 2011 Description : CORONADO POND #1

Site ID : CORONADO POND #1

Sample ID

Project # :

Collected By : Brooke Herb Collection Date : 05/13/11 10:49

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride Fluoride Nitrate Sulfate	310 4.1 20. 680	10. 1.0 1.0 51.	mg/kg mg/kg mg/kg mg/kg	9056 9056 9056 9056	05/18/11 05/18/11 05/18/11 05/18/11	1 1 1
Cyanide	BDL	0.26	mg/kg	9012B	05/20/11	1
рН	9.2		su	9045D	05/18/11	1
Total Solids	97.		ક	2540G	05/20/11	1
Mercury	0.023	0.020	mg/kg	7471	05/18/11	1
Arsenic Barium Cadmium Chromium Copper Iron Lead Manganese Selenium Silver	7.1 510 BDL 5.9 12. 11000 9.2 160 BDL BDL 31.	1.0 0.26 0.26 0.51 1.0 5.1 0.26 0.51 1.0 0.51	mg/kg	6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B	05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11	1 1 1 1 1 1 1 1 1 1
Benzene Toluene Ethylbenzene Total Xylene	BDL BDL BDL BDL	0.0026 0.026 0.0026 0.0077	mg/kg mg/kg mg/kg mg/kg	8021B 8021B 8021B 8021B	05/19/11 05/19/11 05/19/11 05/19/11	5 5 5 5
Surrogate Recovery(%) a,a,a-Trifluorotoluene(PID)	107.		% Rec.	8021B	05/19/11	5

Results listed are dry weight basis. BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

May 23,2011

Project # :

James McDaniel XTO Energy - San Juan Division 382 Road 3100 Aztec, NM 87410

ESC Sample # : L516328-06

Date Received : May 17, 2011 Description : CORONADO POND #1

Site ID : CORONADO POND #1

Sample ID

Collected By : Brooke Herb
Collection Date : 05/13/11 11:46

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil
Chloride Fluoride Nitrate Sulfate	560 11. 18. 260	10. 1.0 1.0 52.	mg/kg mg/kg mg/kg mg/kg	9056 9056 9056 9056	05/18/11 05/18/11 05/18/11 05/18/11	1 1 1
Cyanide	BDL	0.26	mg/kg	9012B	05/20/11	1
рн	10.		su	9045D	05/18/11	1
Total Solids	96.		%	2540G	05/20/11	1
Mercury	0.037	0.021	mg/kg	7471	05/18/11	1
Arsenic Barium Cadmium Chromium Copper Iron Lead Manganese Selenium Silver	7.0 370 BDL 5.5 14. 12000 9.8 110 BDL BDL 40.	1.0 0.26 0.26 0.52 1.0 5.2 0.26 0.52 1.0 0.52	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B	05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11	1 1 1 1 1 1 1 1 1 1
Benzene Toluene Ethylbenzene Total Xylene	BDL BDL BDL	0.0026 0.026 0.0026 0.0078	mg/kg mg/kg mg/kg mg/kg	8021B 8021B 8021B 8021B	05/19/11 05/19/11 05/19/11 05/19/11	5 5 5 5
Surrogate Recovery(%) a,a,a-Trifluorotoluene(PID)	106.		% Rec.	8021B	05/19/11	5

Results listed are dry weight basis. BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

May 23,2011

James McDaniel XTO Energy - San Juan Division 382 Road 3100 Aztec, NM 87410

ESC Sample # : L516328-07

Date Received : May 17, 2011 Description : CORONADO POND #1

Site ID : CORONADO POND #1

Sample ID

Project # :

Collected By : Brooke Herb Collection Date : 05/13/11 11:42

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil
Chloride	330	11.	mg/kg	9056	05/18/11	1
Fluoride	8.2	1.1	mg/kg	9056	05/18/11	1
Nitrate	27.	1.1	mg/kg	9056	05/18/11	1
Sulfate	340	54.	mg/kg	9056	05/18/11	1
Cyanide	BDL	0.27	mg/kg	9012B	05/20/11	1
рН	9.0		su	9045D	05/18/11	1
Total Solids	93.		8	2540G	05/20/11	1
Mercury	0.034	0.021	mg/kg	7471	05/18/11	1
Arsenic	5.3	1.1	mg/kg	6010B	05/20/11	1
Barium	220	0.27	mg/kg	6010B	05/20/11	1
Cadmium	BDL	0.27	mg/kg	6010B	05/20/11	1
Chromium	5.6	0.54	mg/kg	6010B	05/20/11	1
Copper	18.	1.1	mg/kg	6010B	05/20/11	1
Iron	12000	5.4	mg/kg	6010B	05/20/11	1
Lead	10.	0.27	mg/kg	6010B	05/20/11	1
Manganese	120	0.54	mg/kg	6010B	05/20/11	1
Selenium	BDL	1.1	mg/kg	6010B	05/20/11	1
Silver	BDL	0.54	mg/kg	6010B	05/20/11	1
Zinc	34.	1.6	mg/kg	6010B	05/20/11	1
Benzene	BDL	0.0027	mg/kg	8021B	05/19/11	5
Toluene	BDL	0.027	mg/kg	8021B	05/19/11	5
Ethylbenzene	BDL	0.0027	mg/kg	8021B	05/19/11	5
Total Xylene	BDL	0.0080	mg/kg	8021B	05/19/11	5
Surrogate Recovery(%)						
a,a,a-Trifluorotoluene(PID)	107.		% Rec.	8021B	05/19/11	5

Results listed are dry weight basis. BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL) Note:

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

May 23,2011

James McDaniel XTO Energy - San Juan Division 382 Road 3100 Aztec, NM 87410

ESC Sample # : L516328-08

Date Received : May 17, 2011 Description : CORONADO POND #1

Site ID : CORONADO POND #1

Project # :

Sample ID

Collected By : Brooke Herb
Collection Date : 05/13/11 11:57

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride Fluoride Nitrate Sulfate	420 13. 26. 270	10. 1.0 1.0 52.	mg/kg mg/kg mg/kg mg/kg	9056 9056 9056 9056	05/18/11 05/18/11 05/18/11 05/18/11	1 1 1
Cyanide	BDL	0.26	mg/kg	9012B	05/20/11	1
Н	7.1		su	9045D	05/20/11	1
Total Solids	96.		8	2540G	05/23/11	1
Mercury	0.026	0.021	mg/kg	7471	05/18/11	1
Arsenic Barium Cadmium Chromium Copper Iron Lead Manganese Selenium Silver Zinc	4.2 390 BDL 6.6 18. 12000 9.2 180 BDL BDL 41.	1.0 0.26 0.26 0.52 1.0 5.2 0.26 0.52 1.0 0.52 1.6	mg/kg	6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B	05/20/11 05/20/11 05/20/11 05/20/11 05/20/11 05/20/11 05/20/11 05/20/11 05/20/11 05/20/11	1 1 1 1 1 1 1 1 1 1
Benzene Toluene Ethylbenzene Total Xylene Surrogate Recovery(%)	BDL BDL BDL BDL	0.0026 0.026 0.0026 0.0078	mg/kg mg/kg mg/kg mg/kg	8021B 8021B 8021B 8021B	05/18/11 05/18/11 05/18/11 05/18/11	5 5 5 5
a,a,a-Trifluorotoluene (PID)	84.6		% Rec.	8021B	05/18/11	5

Results listed are dry weight basis. BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

May 23,2011

James McDaniel XTO Energy - San Juan Division 382 Road 3100 Aztec, NM 87410

ESC Sample # : L516328-09

Date Received : May 17, 2011 Description : CORONADO POND #1

Site ID : CORONADO POND #1

Sample ID

Project # :

Collected By : Brooke Herb
Collection Date : 05/13/11 11:51

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride Fluoride Nitrate Sulfate	210 11. 15. 280	11. 1.1 1.1 54.	mg/kg mg/kg mg/kg mg/kg	9056 9056 9056 9056	05/18/11 05/18/11 05/18/11 05/18/11	1 1 1
Cyanide	BDL	0.27	mg/kg	9012B	05/20/11	1
рН	7.7		su	9045D	05/20/11	1
Total Solids	93.		%	2540G	05/23/11	1
Mercury	BDL	0.022	mg/kg	7471	05/18/11	1
Arsenic Barium Cadmium Chromium Copper Iron Lead Manganese Selenium Silver	1.3 130 BDL 5.2 17. 12000 8.4 120 BDL BDL 43.	1.1 0.27 0.27 0.54 1.1 5.4 0.27 0.54 1.1 0.54	mg/kg	6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B	05/20/11 05/20/11 05/20/11 05/20/11 05/20/11 05/20/11 05/20/11 05/20/11 05/20/11 05/20/11 05/20/11	1 1 1 1 1 1 1 1 1 1
Benzene Toluene Ethylbenzene Total Xylene Surrogate Recovery(%)	BDL BDL BDL BDL	0.0027 0.027 0.0027 0.0027	mg/kg mg/kg mg/kg mg/kg	8021B 8021B 8021B 8021B	05/18/11 05/18/11 05/18/11 05/18/11	5 5 5 5
a,a,a-Trifluorotoluene(PID)	91.7		% Rec.	8021B	05/18/11	5

Results listed are dry weight basis. BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

May 23,2011

James McDaniel XTO Energy - San Juan Division 382 Road 3100 Aztec, NM 87410

ESC Sample # : L516328-10

Date Received : May 17, 2011 Description : CORONADO POND #1

Site ID : CORONADO POND #1

Sample ID : BACKGROUND

Project # :

Collected By : Brooke Herb Collection Date : 05/13/11 13:16

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil
Chloride	42.	11.	mg/kg	9056	05/18/11	1
Fluoride	4.9	1.1	mg/kg	9056	05/18/11	1
Nitrate	BDL	1.1	mg/kg	9056	05/18/11	1
Sulfate	BDL	53.	mg/kg	9056	05/18/11	1
Cyanide	BDL	0.26	mg/kg	9012B	05/20/11	1
рН	7.4		su	9045D	05/20/11	1
Total Solids	94.		8	2540G	05/23/11	1
Mercury	0.033	0.021	mg/kg	7471	05/18/11	1
Arsenic	4.0	1.1	mg/kg	6010B	05/20/11	1
Barium	180	0.26	mg/kg	6010B	05/20/11	1
Cadmium	BDL	0.26	mg/kg	6010B	05/20/11	1
Chromium	11.	0.53	mg/kg	6010B	05/20/11	1
Copper	8.2	1.1	mg/kg	6010B	05/20/11	1
Iron	13000	5.3	mg/kg	6010B	05/20/11	1
Lead	11.	0.26	mg/kg	6010B	05/20/11	1
Manganese	240	0.53	mg/kg	6010B	05/20/11	1
Selenium	BDL	1.1	mg/kg	6010B	05/20/11	1
Silver	BDL	0.53	mg/kg	6010B	05/20/11	1
Zinc	37.	1.6	mg/kg	6010B	05/20/11	1
Benzene	BDL	0.0026	mg/kg	8021B	05/18/11	5
Toluene	BDL	0.026	mg/kg	8021B	05/18/11	5
Ethylbenzene	BDL	0.0026	mg/kg	8021B	05/18/11	5
Total Xylene	BDL	0.0080	mg/kg	8021B	05/18/11	5
urrogate Recovery(%)						
a, a, a-Trifluorotoluene (PID)	90.6		% Rec.	8021B	05/18/11	5

Results listed are dry weight basis. BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Summary of Remarks For Samples Printed 05/23/11 at 14:46:44

TSR Signing Reports: 288 R5 - Desired TAT

drywt

Sample: L516328-01 Account: XTORNM Received: 05/17/11 09:00 Due Date: 05/24/11 00:00 RPT Date: 05/23/11 14:46
Sample: L516328-02 Account: XTORNM Received: 05/17/11 09:00 Due Date: 05/24/11 00:00 RPT Date: 05/23/11 14:46
Sample: L516328-03 Account: XTORNM Received: 05/17/11 09:00 Due Date: 05/24/11 00:00 RPT Date: 05/23/11 14:46
Sample: L516328-04 Account: XTORNM Received: 05/17/11 09:00 Due Date: 05/24/11 00:00 RPT Date: 05/23/11 14:46
Sample: L516328-05 Account: XTORNM Received: 05/17/11 09:00 Due Date: 05/24/11 00:00 RPT Date: 05/23/11 14:46
Sample: L516328-06 Account: XTORNM Received: 05/17/11 09:00 Due Date: 05/24/11 00:00 RPT Date: 05/23/11 14:46
Sample: L516328-07 Account: XTORNM Received: 05/17/11 09:00 Due Date: 05/24/11 00:00 RPT Date: 05/23/11 14:46
Sample: L516328-08 Account: XTORNM Received: 05/17/11 09:00 Due Date: 05/24/11 00:00 RPT Date: 05/23/11 14:46
Sample: L516328-09 Account: XTORNM Received: 05/17/11 09:00 Due Date: 05/24/11 00:00 RPT Date: 05/23/11 14:46
Sample: L516328-09 Account: XTORNM Received: 05/17/11 09:00 Due Date: 05/24/11 00:00 RPT Date: 05/23/11 14:46
Sample: L516328-10 Account: XTORNM Received: 05/17/11 09:00 Due Date: 05/24/11 00:00 RPT Date: 05/23/11 14:46



Aztec, NM 87410

XTO Energy - San Juan Division James McDaniel 382 Road 3100 12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L516328

		Laboratory	Blank			
Analyte	Result	Units	% Rec	Limit	Batch	Date Analy
dercury	< .02	mg/kg			WG536047	05/18/11 1
Н	4.30	su			WG536090	05/18/11 1
Arsenic	< 1	mg/kg			WG536025	05/18/11 1
Barium	< .25	mg/kg			WG536025	05/18/11 1
admium	< .25	mg/kg			WG536025	05/18/11 1
hromium	< .5	mg/kg			WG536025	05/18/11 1
Copper	< 1	mg/kg			WG536025	05/18/11 1
ron	< 5	mg/kg			WG536025	05/18/11 1
ead	< .25	mg/kg				05/18/11 1
anganese	< .5	mg/kg			WG536025	05/18/11 1
elenium	< 1	mg/kg			WG536025	05/18/11 1
ilver	< .5	mg/kg				05/18/11 1
inc	< 1.5	mg/kg				05/18/11 1
hloride	< 10	mg/kg			WG536120	05/18/11 1
luoride	< 1	mg/kg				05/18/11 1
itrate	< 1	mg/kg				05/18/11 1
ulfate	< 50	mg/kg				05/18/11 1
enzene	< .0005	mg/kg			WG536259	05/18/11 1
thylbenzene	< .0005	mg/kg				05/18/11 1
oluene	< .005	mg/kg				05/18/11 1
otal Xylene	< .0015	mg/kg				05/18/11 1
,a,a-Trifluorotoluene(PID)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	% Rec.	94.62	54-144		05/18/11 1
denzene	< .0005	mg/kg			WG536389	05/19/11 0
thylbenzene	< .0005	mg/kg				05/19/11 0
oluene	< .005	mg/kg				05/19/11 0
otal Xylene	< .0015	mg/kg				05/19/11 0
,a,a-Trifluorotoluene(PID)	.0020	% Rec.	107.2	54-144		05/19/11 0
Н	4.30	su			WG536341	05/20/11 0
yanide	< .25	mg/kg			WG536405	05/20/11 0
otal Solids	< .1	8			WG536423	05/20/11 1
rsenic	< 1	mg/kg			WG536040	05/20/11 2
arium	< .25	mg/kg				05/20/11 2
admium	< .25	mg/kg				05/20/11 2
hromium	< .5	mg/kg				05/20/11 2
opper	< 1	mg/kg				05/20/11 2
ron	< 5	mg/kg				05/20/11 2
ead	< .25	mg/kg				05/20/11 2
anganese	< .5	mg/kg				05/20/11 2
elenium	< 1	mg/kg				05/20/11 2
ilver	< .5	mg/kg				05/20/11 2
inc	< 1.5	mg/kg				05/20/11 2

Zinc < 1.5 mg/kg

* Performance of this Analyte is outside of established criteria.
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Aztec, NM 87410

XTO Energy - San Juan Division James McDaniel 382 Road 3100 12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L516328

May 23, 2011

			ratory Blank				
Analyte	Result	Uni	ts % R	ec	Limit	Batch Date	Analyze
otal Solids	< .1	9				WG536848 05/2	3/11 08:
			Duplicate				
Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Mercury	mg/kg	0.0300	0.0340	11.8	20	L516355-01	WG5360
H	su	6.60	6.60	0	1	L515640-04	WG5360
H	su	9.00	9.20	2.20*	1	L516328-05	WG5360
rsenic	mg/kg	0	0.600	NA	20	L516321-04	WG5360
arium	mg/kg	3.30	2.80	15.8	20	L516321-04	WG5360
admium	mg/kg	0	0.0920	NA	20	L516321-04	WG5360
hromium	mg/kg	1.90	1.40	31.3*	20	L516321-04	WG5360
opper	mg/kg	2.20	1.80	17.7	20	L516321-04	WG5360
ron	mg/kg	1500	1190	23.7*	20	L516321-04	WG5360
ead	mg/kg	4.20	3.40	20.6*	20	L516321-04	WG5360
anganese	mg/kg	7.40	5.62	26.9*	20	L516321-04	WG5360
elenium	mg/kg	0	0.510	NA	20	L516321-04	WG5360
ilver	mg/kg	0	0	0	20	L516321-04	WG5360
inc	mg/kg	46.0	34.2	30.1*	20	L516321-04	WG5360
ulfate	mg/kg	0	6.50	NA	20	L516426-03	WG5361
ulfate	mg/kg	Ō	5.30	NA	20	L516426-05	WG536
Н	su	7.10	7.10	0	1	L516328-08	WG5363
Н	su	9.20	9.20	0	1	L516495-38	WG5363
yanide	mg/kg	0	0	0	20	L516328-01	WG5364
otal Solids	96	94.0	93.1	0.486	5	L516328-07	WG5364
rsenic	mg/kg	6.60	5.60	16.4	20	L516355-01	WG5360
arium	mg/kg	55.0	51.0	7.37	20	L516355-01	WG5360
admium	mg/kg	5.40	3.40	45.8*	20	L516355-01	WG5360
hromium	mg/kg	30.0	28.0	6.23	20	L516355-01	WG5360
opper	mg/kg	28.0	27.3	4.30	20	L516355-01	WG5360
ron	mg/kg	22000	21800	1.82	20	L516355-01	WG5360
ead	mg/kg	18.0	16.0	8.96	20	L516355-01	WG5360
anganese	mq/kq	540.	442.	20.3*	20	L516355-01	WG5360
elenium	mg/kg	2.00	1.80	13.0	20	L516355-01	WG5360
ilver	mg/kg	1.00	1.00	2.96	20	L516355-01	WG5360
inc	mg/kg	100.	85.9	19.1	20	L516355-01	WG5360
otal Solids	8	72.0	73.8	2.60	5	L516971-07	WG5368
		Laborato	ory Control Sa	mple			
Analyte	Units	Known V		tesult	% Rec	Limit	Batch
Mercury	mg/kg	8.77	7.4	8	85.3	71.6-127.7	WG536

Mercury mg/kg 8.77 7.48 85.3

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XTO Energy - San Juan Division James McDaniel 382 Road 3100

Aztec, NM 87410

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L516328

Analyte	Units	Laboratory Con Known Val	Result	% Rec	Limit	Batch	
Analyte	Units	Known val	Result	5 Rec	Limit	Batch	
PH	su	6.3	6.30	100.	97.98-102.02	WG5360	
Arsenic	mg/kg	192	181.	94.3	78.6-120.8	WG5360	
Barium	mg/kg	420	392.	93.3	78.8-121.4	WG5360:	
Cadmium	mg/kg	70.1	66.1	94.3	78.5-121.5	WG5360:	
Chromium	mg/kg	168	162.	96.4	80.4-120.2	WG5360	
Copper	mg/kg	122	118.	96.7	81.6-119.7	WG5360	
Iron	mg/kg	18100	16800	92.8	50.7-149.7	WG5360	
Lead	mg/kg	113	110.	97.3	77.3-122.1	WG5360	
Manganese	mg/kg	441	433.	98.2	78.9-120.9	WG5360	
Selenium	mg/kg	176	172.	97.7	75.6-125.0	WG5360	
Silver	mg/kg	115	99.9	86.9	66-133.9	WG5360:	
Zinc	mg/kg	437	416.	95.2	78.5-121.7	WG5360:	
Chloride	mg/kg	200	202.	101.	85-115	WG5361	
Fluoride	mg/kg	20	19.7	98.5	85-115	WG5361	
Vitrate	mg/kg	20	19.9	99.5	85-115	WG5361	
Sulfate	mg/kg	200	202.	101.	85-115	WG5361	
Benzene	mg/kg	.05	0.0408	81.5	76-113	WG5362	
Cthylbenzene	mg/kg	.05	0.0437	87.4	78-115	WG5362	
oluene	mg/kg	.05	0.0427	85.5	76-114	WG5362	
Total Xylene	mg/kg	.15	0.130	86.9	81-118	WG5362	
a,a,a-Trifluorotoluene(PID)				92.75	54-144	WG5362	
Benzene	mg/kg	.05	0.0550	110.	76-113	WG5363	
Ethylbenzene	mg/kg	.05	0.0517	103.	78-115	WG5363	
Toluene	mg/kg	.05	0.0518	104.	76-114	WG5363	
otal Xylene	mg/kg	.15	0.154	102.	81-118	WG5363	
a,a,a-Trifluorotoluene(PID)	,			106.6	54-144	WG5363	
Н	su	6.3	6.30	100.	97.98-102.02	WG5363	
Cyanide	mg/kg	28.1	28.3	101.	50-150	WG53640	
Total Solids	8	50	50.0	100.	85-155	WG53642	
Arsenic	mg/kg	192	170.	88.5	78.6-120.8	WG5360	
Barium	mg/kg	420	386.	91.9	78.8-121.4	WG5360	
Cadmium	mg/kg	70.1	62.4	89.0	78.5-121.5	WG5360	
Chromium	mg/kg	168	160.	95.2	80.4-120.2	WG5360	
Copper	mg/kg	122	118.	96.7	81.6-119.7	WG5360	
Iron	mg/kg	18100	16600	91.7	50.7-149.7	WG5360	
Lead	mg/kg	113	102.	90.3	77.3-122.1	WG5360	
fanganese	mg/kg	441	428.	97.1	78.9-120.9	WG5360	
Selenium	mg/kg	176	162.	92.0	75.6-125.0	WG5360	
Silver	mg/kg	115	113.	98.3	66-133.9	WG5360	
Zinc	mg/kg	437	407.	93.1	78.5-121.7	WG5360	

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XTO Energy - San Juan Division James McDaniel 382 Road 3100

Aztec, NM 87410

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L516328

Analyte	Units			rol Sample Resul		% Rec		Timin	Datab	
Analyte			n Val	Kesui	t	% Rec		Limit	Batch	
Total Solids	0,	50		50.0		100.	85-155		WG5368	
Analyte	Ilnite	Laboratory Result	Control S Ref	ample Dupl	icate	Limit	RPD	Limit	Batch	
	OHIES									
DH	su	6.30	6.30	100.		97.98-102.02	0	20	WG5360	
chloride	mg/kg	207.	202.	104.		85-115	2.44	20	WG5361	
luoride	mg/kg	20.2	19.7	101.		85-115	2.51	20	WG536	
itrate	mg/kg	20.3	19.9	102.		85-115	1.99	20	WG536	
ulfate	mg/kg	208.	202.	104.		85-115	2.93	20	WG536	
enzene	mg/kg	0.0465	0.0408	93.0		76-113	13.2	20	WG5362	
thylbenzene	mg/kg	0.0509	0.0437	102.		78-115	15.2	20	WG536	
oluene	mg/kg		0.0427	97.0		76-114	12.3	20	WG5362	
otal Xylene	mg/kg	0.152	0.130	102.		81-118	15.6	20	WG5362	
,a,a-Trifluorotoluene(PID)				89.28		54-144			WG5362	
enzene	mg/kg	0.0542	0.0550	108.		76-113	1.58	20	WG536	
thylbenzene	mg/kg	0.0506	0.0517	101.		78-115	2.16	20	WG536	
oluene	mg/kg	0.0507	0.0518	101.		76-114	2.20	20	WG536	
otal Xylene	mg/kg	0.150	0.154	100.		81-118	2.20	20	WG536	
,a,a-Trifluorotoluene(PID)				106.8		54-144			WG536:	
H	su	6.30	6.30	100.		97.98-102.02	0	20	WG5363	
Cyanide	mg/kg	27.9	28.3	99.0		50-150	1.42	20	WG5364	
			Matrix Sp	oike						
analyte	Units	MS Res	Ref Res	TV	% Rec	Limit		Ref Samp	Batch	
Mercury	mg/kg	0.323	0.0340	.25	116.	70-130		L516355-01	WG5360	
rsenic	mg/kg	48.6	0.600	50	96.0	75-125		L516321-04	WG5360	
arium	mg/kg	50.7	2.80	50	95.8	75-125		L516321-04	WG5360	
admium	mg/kg	48.0	0.0920	50	95.8	75-125		L516321-04	WG5360	
hromium	mg/kg	50.6	1.40	50	98.4	75-125		L516321-04	WG5360	
opper	mg/kg	52.5	1.80	50	101.	75-125		L516321-04	WG5360	
ron	mg/kg	1430	1190	50	480.*	75-125		L516321-04	WG5360	
ead	mg/kg	54.6	3.40	50	102.	75-125		L516321-04	WG5360	
anganese	mg/kg	57.1	5.62	50	103.	75-125		L516321-04	WG5360	
elenium	mg/kg	48.1	0.510	50	95.2	75-125		L516321-04	WG5360	
ilver	mg/kg	48.2	0	50	96.4	75-125		L516321-04	WG5360	
inc	mg/kg	84.8	34.2	50	101.	75-125		L516321-04	WG5360	
ulfate	mg/kg	532.	4.00	500	106.	80-120		L516426-01	WG5361	
enzene	mg/kg	0.180	0	.05	72.0	32-137		L516328-08	WG5362	
thylbenzene	mg/kg	0.185	0	.05	74.0	10-150		L516328-08	WG5362	
oluene	mg/kg	0.187	0	.05	74.7	20-142		L516328-08	WG5362	
otal Xylene	mg/kg	0.561	0	.15	74.8	16-141		L516328-08	WG5362	

Total Xylene mg/kg 0.561 0 .15 74.8 16-141

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Aztec, NM 87410

XTO Energy - San Juan Division James McDaniel 382 Road 3100

Quality Assurance Report Level II 12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

L516328

### Benzene mg/kg				L5163	128					
### A. A. = Trifluorotoluene (PID) ### Benzene	n - luka	Uniba	MC Doo			8 Dog	Timit		Dof Camp	Batch
New No. New	maiyte	Units	M5 Kes	Rei Re	S IV	s Rec	TIIII C		Ker Samp	Batter
thylbenzene	a,a,a-Trifluorotoluene(PID)									
	senzene	mg/kg								WG536
otal Xylene mg/kg 0.729 0 .15 97.2 16-141 L516467-10 W yanide mg/kg 3.82 0 3.33 115. 80-120 L516355-04 W arsenic mg/kg 46.3 5.60 50 81.4 75-125 L516355-01 W arium mg/kg 46.6 3.40 50 88.4 75-125 L516355-01 W admium mg/kg 46.6 3.40 50 88.4 75-125 L516355-01 W hronium mg/kg 46.6 9.28.0 50 81.8 75-125 L516355-01 W ron mg/kg 28.0 28.0 50 81.8 75-125 L516355-01 W ron mg/kg 28.0 28.0 50 81.6 75-125 L516355-01 W ron mg/kg 28.0 20 80.0 75-125 L516355-01 W ron mg/kg <	thylbenzene	mg/kg	0.245	0	.05	98.2	10-15	0	L516467-10	WG536
Yanide	'oluene	mg/kg	0.245	0	.05	98.2			L516467-10	WG536
yanide	otal Xylene	mg/kg	0.729	0	.15	97.2	16-14	1	L516467-10	WG536
resenic mg/kg 46.3 5.60 50 81.4 75-125 L516355-01 W arium mg/kg 45.2 51.0 50 88.4 75-125 L516355-01 W arium mg/kg 46.6 3.40 50 86.4 75-125 L516355-01 W arium mg/kg 68.9 28.0 50 81.8 75-125 L516355-01 W arium mg/kg 68.9 28.0 50 81.8 75-125 L516355-01 W arium mg/kg 73.1 27.3 50 91.6 75-125 L516355-01 W arium mg/kg 73.1 27.3 50 91.6 75-125 L516355-01 W arium mg/kg 627. 442. 50 370.* 75-125 L516355-01 W arium mg/kg 627. 442. 50 370.* 75-125 L516355-01 W arium mg/kg 41.1 1.80 50 78.6 75-125 L516355-01 W arium mg/kg 41.1 1.80 50 78.6 75-125 L516355-01 W arium mg/kg 41.1 1.80 50 78.6 75-125 L516355-01 W arium mg/kg 45.2 1.00 50 88.4 75-125 L516355-01 W arium mg/kg 45.2 1.00 50 88.4 75-125 L516355-01 W arium mg/kg 52.0 4.10 50 95.8 75-125 L516355-01 W arium mg/kg 52.0 4.10 50 95.8 75-125 L516355-01 W arium mg/kg 76.0 26.0 50 104. 75-125 L516355-04 W arium mg/kg 58.4 14.0 50 88.8 75-125 L516355-04 W arium mg/kg 59.2 8.70 50 101. 75-125 L516355-04 W arium mg/kg 59.2 8.70 50 101. 75-125 L516355-04 W arium mg/kg 48.8 0.330 50 96.9 75-125 L516355-04 W arium mg/kg 48.8 0.330 50 96.9 75-125 L516355-04 W arium mg/kg 48.8 0.330 50 96.9 75-125 L516355-04 W arium mg/kg 48.8 0.330 50 96.9 75-125 L516355-04 W arium mg/kg 48.8 0.330 50 96.9 75-125 L516355-04 W arium mg/kg 48.8 0.330 50 96.9 75-125 L516355-04 W arium mg/kg 48.8 0.330 50 96.9 75-125 L516355-04 W arium mg/kg 48.8 0.330 50 96.9 75-125 L516355-04 W arium mg/kg 45.4 48.0 0.330 50 96.9 75-125 L516355-04 W arium mg/kg 45.4 48.0 0.330 50 96.9 75-125 L516325-04 W arium mg/kg 45.4 48.0 0.330 50 96.9 75-125 L516325-04 W arium mg/kg 45.4 48.0 0.330 50 96.9 75-125 L516325-04 W arium mg/kg 45.4 48.0 0.300 50 96.9 75-125 L516321-04 W arium mg/kg 45.4 48.0 0.300 50 96.9 75-125 S.89 20 L516321-04 W arium mg/kg 45.4 48.0 0.300 50 50 50 50 50 50 50 50 50 50 50 50 5	,a,a-Trifluorotoluene(PID)					106.7	54-14	14		WG536
arium admium mg/kg 95.2 51.0 50 88.4 75-125 L516355-01 W mg/kg 66.6 3.40 50 86.4 75-125 L516355-01 W mg/kg 68.9 28.0 50 81.8 75-125 L516355-01 W mg/kg 73.1 27.3 50 91.6 75-125 L516355-01 W mg/kg 22600 21800 50 1600* 75-125 L516355-01 W mg/kg 73.1 27.3 50 91.6 75-125 L516355-01 W mg/kg 22600 21800 50 1600* 75-125 L516355-01 W mg/kg 627. 442. 50 370.* 75-125 L516355-01 W mg/kg 41.1 1.80 50 78.6 75-125 L516355-01 W mg/kg 45.2 1.00 50 88.4 75-125 L516355-01 W mg/kg 76.0 26.0 50 100. 75-125 L516355-01 W mg/kg 76.0 26.0 50 100. 75-125 L516355-04 W mg/kg 59.2 8.70 50 101. 75-125 L516355-04 W mg/kg 48.8 0.330 50 96.9 75-125 L516355-04 W mg/kg 47.8 50.0 88.8 75-125 L516355-04 W mg/kg 47.8 50.0 88.8 75-125 L516355-04 W mg/kg 47.8 50.6 88.8 75-125 L516355-04 W mg/kg 47.8 50.6 88.8 75-125 L516355-04 W mg/kg 47.8 50.6 92.8 75-125 L516355-04 W mg/kg 48.4 52.5 93.2 70-130 11.5 20 L516321-04 W mg/kg 47.8 50.6 92.8 75-125 L516355-04 W mg/kg 48.4 52.5 93.2 75-125 L5163521-04 W mg/kg 47.8 50.6 92.8 75-125 L5163521-04 W	yanide	mg/kg	3.82	0	3.33	115.	80-12	20	L516355-04	WG536
	rsenic									WG536
Name	arium	mg/kg	95.2	51.0	50	88.4			L516355-01	WG53
opper mg/kg 73.1 27.3 50 91.6 75-125 L516355-01 Windless ron mg/kg 22600 21800 50 1600* 75-125 L516355-01 Windless anganese mg/kg 58.0 16.0 50 84.0 75-125 L516355-01 Windless elenium mg/kg 41.1 1.80 50 78.6 75-125 L516355-01 Windless ilver mg/kg 45.2 1.00 50 88.4 75-125 L516355-01 Windless ilver mg/kg 45.2 1.00 50 88.4 75-125 L516355-01 Windless resenic mg/kg 138.8 8.9 50 104. 75-125 L516355-01 Windless actium mg/kg 76.0 26.0 50 100. 75-125 L516355-04 Windless bead mg/kg 76.0 26.0 50 101. 75-125 L516355-04 <td< td=""><td>admium</td><td>mg/kg</td><td>46.6</td><td>3.40</td><td>50</td><td>86.4</td><td>75-12</td><td>5</td><td>L516355-01</td><td>WG53</td></td<>	admium	mg/kg	46.6	3.40	50	86.4	75-12	5	L516355-01	WG53
ron ead mg/kg 28600 21800 50 1600* 75-125 L516355-01 W mg/kg 58.0 16.0 50 84.0 75-125 L516355-01 W anganese mg/kg 627. 442. 50 370.* 75-125 L516355-01 W anganese elenium mg/kg 41.1 1.80 50 78.6 75-125 L516355-01 W ilver mg/kg 45.2 1.00 50 88.4 75-125 L516355-01 W inc mg/kg 138. 85.9 50 104. 75-125 L516355-01 W arium mg/kg 52.0 4.10 50 95.8 75-125 L516355-01 W arium mg/kg 76.0 26.0 50 100. 75-125 L516355-04 W arium mg/kg 76.0 26.0 50 100. 75-125 L516355-04 W arium mg/kg 59.2 8.70 50 101. 75-125 L516355-04 W hromium mg/kg 59.9 8 9.20 50 101. 75-125 L516355-04 W ead mg/kg 59.9 8 9.20 50 101. 75-125 L516355-04 W elenium mg/kg 46.4 1.20 50 90.4 75-125 L516355-04 W ilver mg/kg 48.8 0.330 50 96.9 75-125 L516355-04 W ilver mg/kg 48.8 0.330 50 96.9 75-125 L516355-04 W ilver mg/kg 48.8 0.330 50 96.9 75-125 L516355-04 W ilver mg/kg 45.0 48.6 88.8 75-125 L516355-04 W arium mg/kg 45.4 48.0 90.6 75-125 L516355-04 W incomplex mg/kg 47.8 50.7 90.0 75-125 L516355-04 W incomplex mg/kg 45.4 48.0 90.6 75-125 5.89 20 L516321-04 W incomplex mg/kg 45.4 48.0 90.6 75-125 5.89 20 L516321-04 W incomplex mg/kg 45.4 48.0 90.6 75-125 5.89 20 L516321-04 W incomplex mg/kg 47.8 50.7 90.0 75-125 5.89 20 L516321-04 W incomplex mg/kg 47.8 50.7 90.0 75-125 5.89 20 L516321-04 W incomplex mg/kg 47.8 50.6 92.8 75-125 5.89 20 L516321-04 W incomplex mg/kg 47.8 50.6 92.8 75-125 5.97 20 L516321-04 W incomplex mg/kg 47.8 50.6 92.8 75-125 5.57 20 L516321-04 W incomplex mg/kg 47.8 50.7 90.0 75-125 5.57 20 L516321-04 W incomplex mg/kg 47.8 50.7 90.0 75-125 5.57 20 L516321-04 W incomplex mg/kg 47.8 50.7 90.0 75-125 5.57 20 L516321-04 W incomplex mg/kg 47.8 50.7 90.0 75-125 5.59 20 L516321-04 W incomplex mg/kg 47.8 50.7 90.0 75-125 5.59 20 L516321-04 W incomplex mg/kg 47.8 50.7 90.0 75-125 5.59 20 L516321-04 W incomplex mg/kg 47.8 90.4 84.8 92.4 75-125 5.54 20 L516321-04 W incomplex mg/kg 52.9 532. 105. 80-12	hromium	mg/kg	68.9	28.0	50	81.8	75-12	.5	L516355-01	WG53
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Marrix Spike Duplicate										WG53
mg/kg 627.										WG53
Part										WG53
Silver										WG53
Trick										WG53
Service										WG53
Marium										WG53
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Matrix Spike Duplicate Matrix Apach As 8.8										WG53
Marker M	ilver	mg/kg	48.8	0.330	50	96.9	75-12	25	L516355-04	WG536
mg/kg 0.288 0.323 102. 70-130 11.5 20 L516355-01 Workersonic mg/kg 45.0 48.6 88.8 75-125 7.69 20 L516321-04 Workersonic mg/kg 47.8 50.7 90.0 75-125 5.89 20 L516321-04 Workersonium mg/kg 45.4 48.0 90.6 75-125 5.57 20 L516321-04 Workersonium mg/kg 47.8 50.6 92.8 75-125 5.69 20 L516321-04 Workersonium mg/kg 48.4 52.5 93.2 75-125 8.13 20 L516321-04 Workersonium mg/kg 1330 1430 280.* 75-125 7.25 20 L516321-04 Workersonium mg/kg 50.9 54.6 95.0 75-125 7.25 20 L516321-04 Workersonium mg/kg 52.8 57.1 94.4 75-125 7.83 20 L516321-04 Workersonium mg/kg 44.6 48.1 88.2 75-125 7.55 20 L516321-04 Workersonium mg/kg 44.6 48.1 88.2 75-125 7.55 20 L516321-04 Workersonium mg/kg 44.6 48.1 88.2 75-125 7.55 20 L516321-04 Workersonium mg/kg 45.6 48.2 91.2 75-125 5.54 20 L516321-04 Workersonium mg/kg 80.4 84.8 92.4 75-125 5.33 20 L516321-04 Workersonium mg/kg 80.4 84.8 92.4 75-125 5.33 20 L516321-04 Workersonium mg/kg 80.4 84.8 92.4 75-125 5.33 20 L516321-04 Workersonium mg/kg 80.4 84.8 92.4 75-125 5.33 20 L516321-04 Workersonium mg/kg 80.4 84.8 92.4 75-125 5.33 20 L516321-04 Workersonium mg/kg 80.4 84.8 92.4 75-125 5.33 20 L516321-04 Workersonium mg/kg 80.185 80.180 74.1 32-137 2.91 39 L516328-08 Workersonium mg/kg 80.187 75.6 20-142 1.15 42 L516328-08 Workersonium mg/kg 80.189 0.187 75.6 20-142 1.15 42 L516328-08 Workersonium mg/kg 0.189 0.187 75.6 20-142 1.15 42 L516328-08 Workersonium mg/kg 0.189 0.187 75.6 20-142 1.15 42 L516328-08 Workersonium mg/kg 0.189 0.187 75.6 20-142 1.15 42 L516328-08 Workersonium mg/kg 0.189 0.187 75.6 20-142 1.15 42 L516328-08 Workersonium mg/kg										
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admium mg/kg 45.4 48.0 90.6 75-125 5.57 20 L516321-04 W0 mg/kg 47.8 50.6 92.8 75-125 5.69 20 L516321-04 W0 mg/kg 48.4 52.5 93.2 75-125 8.13 20 L516321-04 W0 mg/kg 1330 1430 280.* 75-125 7.25 20 L516321-04 W0 mg/kg 1330 1430 280.* 75-125 7.25 20 L516321-04 W0 mg/kg 50.9 54.6 95.0 75-125 7.01 20 L516321-04 W0 mg/kg 52.8 57.1 94.4 75-125 7.83 20 L516321-04 W0 mg/kg 44.6 48.1 88.2 75-125 7.55 20 L516321-04 W0 mg/kg 45.6 48.2 91.2 75-125 7.55 20 L516321-04 W0 mg/kg 45.6 48.2 91.2 75-125 5.54 20 L516321-04 W0 mg/kg 45.6 48.2 91.2 75-125 5.33 20 L516321-04 W0 mg/kg 80.4 84.8 92.4 75-125 5.33 20 L										WG53
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ron mg/kg 1330 1430 280.* 75-125 7.25 20 L516321-04 Wc ead mg/kg 50.9 54.6 95.0 75-125 7.01 20 L516321-04 Wc elenium mg/kg 52.8 57.1 94.4 75-125 7.83 20 L516321-04 Wc elenium mg/kg 44.6 48.1 88.2 75-125 7.55 20 L516321-04 Wc ilver mg/kg 45.6 48.2 91.2 75-125 5.54 20 L516321-04 Wc inc mg/kg 80.4 84.8 92.4 75-125 5.33 20 L516321-04 Wc inc mg/kg 529. 532. 105. 80-120 0.566 20 L516426-01 Wc enzene mg/kg 0.185 0.180 74.1 32-137 2.91 39 L516328-08 Wc thylbenzene mg/kg 0.189 0.187 75.6 20-142 1.15 42 L516328-08 Wc oluene	hromium	mg/kg	47.8	50.6	92.8	75-125	5.69	20	L516321-04	WG53
ead mg/kg 50.9 54.6 95.0 75-125 7.01 20 L516321-04 WC langanese mg/kg 52.8 57.1 94.4 75-125 7.83 20 L516321-04 WC elenium mg/kg 44.6 48.1 88.2 75-125 7.55 20 L516321-04 WC ilver mg/kg 45.6 48.2 91.2 75-125 5.54 20 L516321-04 WC inc mg/kg 80.4 84.8 92.4 75-125 5.33 20 L516321-04 WC ulfate mg/kg 529. 532. 105. 80-120 0.566 20 L516426-01 WC enzene mg/kg 0.185 0.180 74.1 32-137 2.91 39 L516328-08 WC thylbenzene mg/kg 0.190 0.185 75.8 10-150 2.38 44 L516328-08 WC oluene mg/kg 0.189 0.187 75.6 20-142 1.15 42 L516328-08 WC	opper	mg/kg	48.4	52.5	93.2	75-125	8.13	20	L516321-04	WG53
Manganese	ron	mg/kg	1330	1430	280.*	75-125	7.25	20	L516321-04	WG53
Manganese	ead	ma/ka	50.9	54.6	95.0	75-125	7.01	20	L516321-04	WG536
elenium mg/kg 44.6 48.1 88.2 75-125 7.55 20 L516321-04 WC ilver mg/kg 45.6 48.2 91.2 75-125 5.54 20 L516321-04 WC inc mg/kg 80.4 84.8 92.4 75-125 5.33 20 L516321-04 WC ulfate mg/kg 529. 532. 105. 80-120 0.566 20 L516426-01 WC enzene mg/kg 0.185 0.180 74.1 32-137 2.91 39 L516328-08 WC thylbenzene mg/kg 0.190 0.185 75.8 10-150 2.38 44 L516328-08 WC oluene mg/kg 0.189 0.187 75.6 20-142 1.15 42 L516328-08 WC										WG53
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mg/kg 0.185 0.180 74.1 32-137 2.91 39 L516328-08 W thylbenzene mg/kg 0.190 0.185 75.8 10-150 2.38 44 L516328-08 W oluene mg/kg 0.189 0.187 75.6 20-142 1.15 42 L516328-08 W										
thylbenzene mg/kg 0.190 0.185 75.8 10-150 2.38 44 L516328-08 WC cluene mg/kg 0.189 0.187 75.6 20-142 1.15 42 L516328-08 WC	ulfate	mg/kg	529.	532.	105.	80-120	0.566	20	L516426-01	WG536
oluene mg/kg 0.189 0.187 75.6 20-142 1.15 42 L516328-08 WG										WG53
										WG536
										WG536
	otal Xylene	mg/kg	0.572	0.561	76.2		1.95	46	L516328-08	WG536
a,a,a-Trifluorotoluene(PID) 89.45 54-144 WG	,a,a-Trifluorotoluene(PID)				89.45	54-144				WG536

^{*} Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



XTO Energy - San Juan Division James McDaniel 382 Road 3100

Aztec, NM 87410

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L516328

May 23, 2011

		Ma	trix Spik	e Duplicate					
Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Benzene	mg/kg	0.269	0.263	107.	32-137	2.19	39	L516467-10	WG53638
Ethylbenzene	mg/kg	0.245	0.245	97.8	10-150	0.390	44	L516467-10	WG53638
Toluene	mg/kg	0.250	0.245	99.8	20-142	1.66	42	L516467-10	WG53638
Total Xylene	mg/kg	0.720	0.729	96.0	16-141	1.20	46	L516467-10	WG53638
a,a,a-Trifluorotoluene(PID)				107.9	54-144				WG53638
Cyanide	mg/kg	3.61	3.82	108.	80-120	5.65	20	L516355-04	WG53640
Arsenic	mg/kg	44.1	52.0	80.0	75-125	16.4	20	L516355-04	WG53604
Barium	mg/kg	93.1	76.0	134.*	75-125	20.2*	20	L516355-04	WG53604
Cadmium	mg/kg	41.1	58.4	54.2*	75-125	34.8*	20	L516355-04	WG53604
Chromium	mg/kg	69.6	59.2	122.	75-125	16.1	20	L516355-04	WG53604
Copper	mg/kg	69.4	73.1	84.2	75-125	5.19	20	L516355-01	WG53604
Iron	mg/kg	22900	22600	2200*	75-125	1.32	20	L516355-01	WG53604
Lead	mg/kg	54.8	59.8	91.2	75-125	8.73	20	L516355-04	WG53604
Manganese	mg/kg	444.	627.	4.00*	75-125	34.2*	20	L516355-01	WG53604
Selenium	mg/kg	38.0	46.4	73.6*	75-125	19.9	20	L516355-04	WG53604
Silver	mg/kg	42.6	48.8	84.5	75-125	13.6	20	L516355-04	WG53604
Zinc	mg/kg	119.	138.	66.2*	75-125	14.8	20	L516355-01	WG53604
Arsenic	mg/kg	51.6	52.0	95.0	75-125	0.772	20	L516355-04	WG53604
Barium	mg/kg	76.2	76.0	100.	75-125	0.263	20	L516355-04	WG53604
Cadmium	mg/kg	58.8	58.4	89.6	75-125	0.683	20	L516355-04	WG53604
Chromium	mg/kg	59.0	59.2	101.	75-125	0.338	20	L516355-04	WG53604
Lead	mg/kg	60.8	59.8	103.	75-125	1.66	20	L516355-04	WG53604
Selenium	mg/kg	46.2	46.4	90.0	75-125	0.432	20	L516355-04	WG53604
Silver	mg/kg	49.0	48.8	97.3	75-125	0.409	20	L516355-04	WG53604

Batch number /Run number / Sample number cross reference

WG536047: R1691954: L516328-01 02 03 04 05 06 07 08 09 10 WG536090: R1692249: L516328-01 02 03 04 05 06 07 08 09 10 WG536025: R1692289: L516328-01 02 03 04 05 06 07 08 09 10 WG536120: R1692610: L516328-01 02 03 04 05 06 07 08 09 10 WG536259: R1692929: L516328-08 09 10 WG536389: R1693090: L516328-01 02 03 04 05 06 07 WG536341: R1694309: L516328-01 02 03 04 05 06 07 WG536405: R1694549: L516328-01 02 03 04 05 06 07 08 09 10 WG536402: R1694679: L516328-01 02 03 04 05 06 07 08 09 10 WG5366423: R1694679: L516328-01 02 03 04 05 06 07 WG536040: R1696830 R1696831: L516328-08 07 09 10 WG536848: R1697115: L516328-08 09 10

^{* *} Calculations are performed prior to rounding of reported values.

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



XTO Energy - San Juan Division James McDaniel 382 Road 3100

Aztec, NM 87410

Quality Assurance Report Level II

L516328

May 23, 2011

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Est. 1970

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate — is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Company Name/Address		Alternate Billing						Analysis/Container/Preservative							Chain of Custody Page of		
XTO Energy, Inc. 382 County Road 3100 Aztec, NM 87410					XTORNM	es McDanie				Pb. Hg, Se	Z					Prepared by: ENVIRON Science cor 12065 Lebal	MENTAL p non Road
Project Description: CORONAL PHONE: 505-333-3701 FAX: Celtacted by: DYDOKE HEY D	Ollette	Toject		-	CND #		y/State Collected:	NM		C. CN-F	9	Dz as N	HO			Mt. Juliet TN Phone (615) Phone (800 FAX (61	758-5858
Solicities by(signature): Shale Packed on Ice N_ Y_V	Rush		Lab Mil Next Two [JST b Day Day	e Notified)100%50%25%	Email?	No_X_Yes	No of	BTex (8021	Y .	田田	1 7	TOS, DI	-		XTORNM Template/Prelogin Shipped Via: Fed Ex	
Sample ID		/Grab	+	-	Depth	Date	Time	Cntrs	(A)	0	7	0	-		-	Remarks/contaminant	Sample # (lab only)
A	Co	MP	S	5	ļ	5/3/	111:23	2	1	\perp		1	Ш		-		T211338-01
β	_	-	_	_	-		11:37		\vdash	-			4		-		-02
C		_	_				11:30	12		\perp			Ш				-03
1220 D							11.15	12	Ц		20 TO						-04
0,1911		1					-	12	1	+		+	-		-	NO SAMPLE	COLLECTED
F							1049	2									- 05
G							1146	2		П		П	П				-0t
Н							11:42	a		\sqcap		\sqcap	1				-07
I		1		1			1157	2	1	V	V	1	1				-08
Matrix: SS-Soil/Solid GW-Groundw Remarks: "ONLY 1 COC Per Site		W-Wa		ter D								,		p⊦		TempFlow	Other
Relinquisher by (Signature) Relinquisher by (Signature)	5/13 Date:	11	Time:	30	Received by:(S		STATE OF THE PARTY		Samp	65°	rned via	9 2°	766	JPS_Other Received:		Condition (((lab use only)
Relinquisher by:(Signature	Date:		Time:		Received for it	ab by: (Signa	ture)		Date:	5.	111		Time:	900	00	pH Checked:	NCF:

Company Name/Address	Alternate Bil	ling		Analysi	s/Conta	iner/Pre	eservative			Chain of Custody Page 2 of 2
XTO Energy, Inc. 382 County Road 3100 Aztec, NM 87410	XTORNM			, Hg, Se	1, 20				Prepared by: ENVIRONM Science corp	MENTAL O
Collector by/signature):	E-mail to: jame	Santian City, N N Lab Project #	8021)	3	Cl. Cu. re, M	o H			12065 Leban Mt. Juliet TN Phone (615) Phone (800) FAX (618	37122 758-5858) 767-5859
Packed on Ice N_ Y XThr Sample ID Comp/Grab	Matrix Depth	Email?No_X_Yes of FAX?NoYes Date Time Ontrs	BTEX (- as Ba, Cd	C. C. C. N	SCH			XTORNM Template/Prelogin Shipped Via: Fed Ex Remarks/contaminant	Sample # (lab only)
	S/S 0-2"	5/3/11 115 121 20 20 5/13/11 13:16	1	\		1				-10
5/13/11	ime: Received by:(S	Signature)			ed via: Fe		pH_ UPS_Other_		TempFlow	Other(lab use only)
- 200	ime: Received by: (5	ab by: (Signature)	Date:	3.1		Time	es Received: 20 40 : : : :	2	pH Checked:	NCF:



NON-CONFORMANCE FORM

pc

Login No.: L516324	Caphre
Date: 5/12/14	
Evaluated by: Dustin C	
Client: XTORWM	
Non-Conformance (check appl	icable items)
- D	1
☐ Parameter(s) past holding time	
☐ Improper temperature ☐ Improper container type	☐ Chain of custody is incomplete ☐ Chain of Custody is missing (see below)
☐ Improper container type ☐ Improper preservation	
☐ Container lid not intact	Broken container: sufficient sample
Somether region to the con-	volume remains for analysis requested (See below)
If no COC: Received byTime:Time:Temp:Cont. RecpH:Tedex c UPS c SWA c OtherTracking #	☐ Insufficient packing material inside cooler☐ Improper handling by carrier (FedEx / UPS / Courier
Comments: Cliny wa	173 torn TDS on all sumples, An scamples
we soil.	
Login Instructions:	TSR Initials:
Zm	/ voice mail date: 5/17 time: 14.00
	/ voice mail date: 5111 time: 14,00
Client contact:	formed client
(1)	dillo.



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Est. 1970

James McDaniel XTO Energy - San Juan Division 382 Road 3100 Aztec, NM 87410

Report Summary

Tuesday May 24, 2011

Report Number: L516365
Samples Received: 05/17/11
Client Project:

Description: Coronado Pond 1

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487 GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140 NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233 AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A, TX - T104704245, OK-9915

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

May 24,2011

James McDaniel XTO Energy - San Juan Division 382 Road 3100 Aztec, NM 87410

ESC Sample # : L516365-01

Date Received : May 17, 2011 Description : Coronado Pond 1

Site ID : CORONADO POND 1

Project # :

Sample ID

Collected By : Brooke Herb Collection Date : 05/16/11 12:28

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride Fluoride Nitrate Sulfate	150 6.7 4.7 540	10. 1.0 1.0 53.	mg/kg mg/kg mg/kg mg/kg	9056 9056 9056 9056	05/18/11 05/18/11 05/18/11 05/18/11	1 1 1
Cyanide	BDL	0.26	mg/kg	9012B	05/24/11	1
РН	7.5		su	9045D	05/20/11	1
Total Solids	95.		용	2540G	05/23/11	1
Mercury	0.043	0.021	mg/kg	7471	05/18/11	1
Arsenic Barium Cadmium Chromium Copper Iron Lead Manganese Selenium Silver Zinc	19. 380 0.76 6.2 9.3 10000 15. 130 7.5 BDL 33.	1.0 0.26 0.26 0.53 1.0 5.3 0.26 0.53 1.0 0.53	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B 6010B	05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11 05/18/11	1 1 1 1 1 1 1 1 1 1
Benzene Toluene Ethylbenzene Total Xylene	BDL BDL BDL BDL	0.0026 0.026 0.0026 0.0079	mg/kg mg/kg mg/kg mg/kg	8021B 8021B 8021B 8021B	05/18/11 05/18/11 05/18/11 05/18/11	5 5 5 5
Surrogate Recovery(%) a,a,a-Trifluorotoluene(PID)	88.9		% Rec.	8021B	05/18/11	5

Results listed are dry weight basis. BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:

Note: This report shall not be reproduced, except in full, without the written approval from ESC. The reported analytical results relate only to the sample submitted Reported: 05/24/11 16:43 Printed: 05/24/11 16:43 L516365-01 (PH) - 7.5020.7c

Attachment A List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L516365-01	WG536757	SAMP	Cyanide	R1698973	J3

Attachment B Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision The agreement between a set of samples or between duplicate samples.

 Relates to how close together the results are and is represented by Relative Percent Differrence.
- Surrogate Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed 05/24/11 at 16:43:24

TSR Signing Reports: 288 R5 - Desired TAT

drywt

Sample: L516365-01 Account: XTORNM Received: 05/17/11 09:00 Due Date: 05/24/11 00:00 RPT Date: 05/24/11 16:43



		.czailifeus.'	lytes with C				For additional information, pl
							* Performance of this Analyte is
MG536259	PII-97	2.28	7240		80.	mg/kg	Toluene
MG536259	211-87	P. 78	7540		20.	Бу/бш	Ethylbenzene
MG236259	76-113	2.18	8010	.0	80.	бу/бш	Benzene
MG236120	SII-S8	.101		202	200	бу/бш	atellus
MG536120	911-98	2.66		61	20	бу/бш	Nitrate
MG536120	82-112	2.86		61	20	mg/kg	Fluoride
MG236120	82-115	.101	. 2	202	200	mg/kg	Chloride
MG236048	7.721-0.17	0.08	0.5) · L	LL.8	Бү/Бш	Wercury
Ватср	Limit	% Rec	tluses		Known Va	stinU	Analyte
			əlqme	y Control S	Laborator		
MG236757	F216355-06	50	*.211	087.0	06.2	бу/бш	Cyanide
MG236757	T216441-01	20	1.20	099.0	079.0	бу/бш	Cyanide
MG236848	L0-1769I21	S	2.60	8.87	0.27	8	spilos latoT
MG236341	8E-S6#9ISI	Ţ	0	02.6	02.6	ns	Hď
MG23634I	T216328-08	Ţ	0	01.7	01.7	กร	на
MG239150	T2I0456-05	20	AN	08.3	0	бу/бш	Sulfate
MG239150	T216426-03	20	AN	05.9	0	by/bw	Sulfate
MC236048	F0-SSE9ISI	20	0	0.0150	0510.0	ша/ка	Метсигу
Ватсһ	Ref Samp	Limit	KPD	uplicate Duplicate	Result	stinU	Analyte
8E:01 11/b	MG236757 05/2			Б	mg/k	22. >	Cyanide
ES:80 II/E	MG236848 05/2				9	I. >	spilos latoT
LI:80 II/0	Z/S0 T#8985M				ns	08.4	Hď
SI:61 II/8	MC236259 05/1	bbI-bS	29.4	6 .5	9A 8		a,a,a-Trifluorotoluene(PID)
	MC236259 05/1			Б	у/бш	SI00. >	Total Xylene
SI:61 II/8	MC236259 05/1			б	ж/бш	500. >	Toluene
	MC236259 05/1			Б	у/бш	5000. >	Егрудрепгепе
	MG236259 05/1			б	у/бш	2000. >	Benzene
86:01 11/8	MG236120 05/1			б	у/бш	05 >	Sulfate
	MG239150 02\I			б	у/бш	I >	Nitrate
	MG236120 05/1			Б	мд/к	T >	Fluoride
	MG230150 02\I				шд/к	01 >	Chloride
8/11 11:83	1/S0 8009895M			б	у/бш	20. >	Wercury
Analyzed	Batch Date	Limit	Sec	9 S	JinU	Hesult	Analyte
F	7-1-0	7,-,1		atory Blank			

F216365 Aztec, NM 87410 Quality Assurance Report Level II

XTO Energy - San Juan Division James McDaniel 382 Road 3100

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Aztec, NM 87410

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Quality Assurance Report Level II

L516365

May 24, 2011

Notal Xylene	Analuto	Units			trol Sample		% Rec		Limit	Batch
Section Sect	Analyte	Units	KNO	wn val	kesu	LC	* Kec		TIMIL	Batch
Second S	Total Xylene a,a,a-Trifluorotoluene(PID)	mg/kg	.15		0.130					WG53625
Description	рН	su	6.3		6.30		100.		97.98-102.02	WG53634
Laboratory Control Sample Duplicate Limit RPD Limit Bate Ref Rec Limit RPD Limit Bate Ref Rec Limit RPD Limit Bate Ref Rec Limit RPD Limit RPD Limit Bate Ref Rec Limit RPD Limit	Total Solids	%	50		50.0		100.		85-155	WG53684
Name	Cyanide	mg/kg	28.	1	21.4		76.2		50-150	WG53675
Name			Laborator	v Control	Sample Dupl	licate				
### Proof of the company of the comp	Analyte	Units					Limit	RPD	Limit	Batch
### Proof of the company of the comp	Chloride	ma/ka	207	202	104		85-115	2.44	20	WG53612
Matrix Spike mg/kg 0.262 0.0150 25 98.8 70-130 L516328-08 WG53 wg/kg 0.185 0 0.0150 2.5 98.8 wg/kg 0.185 0 0.185 0 0.055 74.0 10-150 L516328-08 wg/kg 0.187 0 0.187 0 0.187 0 0.055 74.0 10-150 L516328-08 wg/kg 0.187 0 0.187 0 0.055 74.0 10-150 L516328-08 wg/kg 0.187 0 0.187 0 0.5 74.0 10-150 L516328-08 wg/kg 0.187 0 0										WG53612
Sulfate mg/kg 208. 202. 104. 85-115 2.93 20 WG53 Senzene mg/kg 0.0465 0.0408 93.0 76-113 13.2 20 WG53 Sthylbenzene mg/kg 0.0509 0.0437 102. 78-115 15.2 20 WG53 Coluene mg/kg 0.0483 0.0427 97.0 76-114 12.3 20 WG53 Coluene mg/kg 0.152 0.130 102. 81-118 15.6 20 WG53 Coluent mg/kg 0.152 0.130 102. 81-118 15.6 20 WG53 Coluent mg/kg 0.152 0.130 102. 81-118 15.6 20 WG53 Coluent mg/kg 27.7 21.4 98.0 50-150 25.7* 20 WG53 Coluent mg/kg 27.7 21.4 98.0 50-150 25.7* 20 WG53 Coluent mg/kg 27.7 21.4 98.0 50-150 25.7* 20 WG53 Coluent mg/kg 0.262 0.0150 .25 98.8 70-130 L516355-04 WG53 Coluent mg/kg 532. 4.00 500 106. 80-120 L516426-01 WG53 Coluent mg/kg 0.185 0 .05 74.0 10-150 L516328-08 WG53 Coluent mg/kg 0.185 0 .05 74.0 10-150 L516328-08 WG53 Coluent mg/kg 0.185 0 .05 74.0 10-150 L516328-08 WG53 Coluent mg/kg 0.185 0 .05 74.0 10-150 L516328-08 WG53 Coluent mg/kg 0.187 0 .05 74.0 10-150 L516328-08 WG53 Coluent mg/kg 0.187 0 .05 74.0 10-150 L516328-08 WG53 Coluent mg/kg 0.187 0 .05 74.7 20-142 L516328-08 WG53 Coluent mg/kg 0.561 0 .15 74.8 16-141 L516328-08 WG53 Coluent mg/kg 0.187 0 .05 74.7 20-142 L516328-08 WG53 Coluent mg/kg 0.187 0 .05 74.7 20-142 L516328-08 WG53 Coluent mg/kg 0.187 0 .05 74.7 20-142 L516328-08 WG53 Coluent mg/kg 0.187 0 .05 74.8 16-141 L516328-08 WG53 Coluent mg/kg 0.187 0 .05 74.8 16-141 L516328-08 WG53 Coluent mg/kg 0.187 0 .05 74.8 16-141 L516328-08 WG53 Coluent mg/kg 0.561 0 .15 74.8 16-141 L516328-08 WG53 Coluent mg/kg 0.561 0 .15 74.8 16-141 L516328-08 WG53 Coluent mg/kg 0.561 0 .15 74.8 16-141 L516328-08 WG53 Coluent mg/kg 0.561 0 .15 74.8 16-141 L516328-08 WG53 Coluent mg/kg 0.561 0 .15 74.8 16-141 L516328-08 WG53 Coluent mg/kg 0.561 0 .15 74.8 16-141 L516328-08 WG53 Coluent mg/kg 0.561 0 .15 74.8 16-141 L516328-08 WG53 Coluent mg/kg 0.561 0 .15 74.8 16-141 L516328-08 WG53 Coluent mg/kg 0.561 0 .15 74.8 16-141 L516328-08 WG53 Coluent mg/kg 0.561 0 .15 74.8 16-141 L516328-08 WG53 Coluent mg/kg 0.561 0 .15 74.8 16-141 L516328-08 WG53 Coluent mg/kg 0.561 0 .15 74.8 16-141 L516328-08 WG53 Coluent mg/										WG53612
## Striplenzene	Sulfate									WG53612
## Striplenzene	Benzene	ma/ka	0.0465	0.0408	93.0		76-113	13.2	20	WG53625
Toluene										WG53625
Second S	Toluene									WG53625
### Superior of the property o										WG53625
Cyanide mg/kg 27.7 21.4 98.0 50-150 25.7* 20 WG53 Analyte Units MS Res Ref Res TV % Rec Limit Ref Samp Batch Mercury mg/kg 0.262 0.0150 .25 98.8 70-130 L516355-04 WG53 Sulfate mg/kg 532. 4.00 500 106. 80-120 L516426-01 WG53 Senzene mg/kg 0.180 0 .05 72.0 32-137 L516328-08 WG53 Schluene mg/kg 0.187 0 .05 74.0 10-150 L516328-08 WG53 Cyanide mg/kg 0.187 0 .05 74.7 20-142 L516328-08 WG53 Cyanide mg/kg 0.261 0 .15 74.8 16-141 L516328-08 WG53 Cyanide mg/kg 3.24 0 3.33 97.3 80-120 L516355-13 WG53	a,a,a-Trifluorotoluene(PID)									WG53625
Matrix Spike Analyte Units MS Res Ref Res TV % Rec Limit Ref Samp Bate Mercury mg/kg 0.262 0.0150 .25 98.8 70-130 L516355-04 WG53 Sulfate mg/kg 532. 4.00 500 106. 80-120 L516426-01 WG53 Senzene Schylbenzene mg/kg 0.180 0 .05 72.0 32-137 L516328-08 WG53 Mg/kg 0.185 0 .05 74.0 10-150 L516328-08 WG53 Mg/kg 0.187 0 .05 74.7 20-142 L516328-08 WG53 Notal Xylene mg/kg 0.187 0 .05 74.8 16-141 L516328-08 WG53 Mg/kg 0.561 0 .15 74.8 16-141 L516328-08 WG53 Mg/kg 0.561 0 .15 74.8 16-141 L516328-08 WG53 Mg/kg 0.561 0 .15 74.8 16-141 L516328-08 WG53 Mg/kg 0.561 0 .33 97.3 80-120 L516355-13 WG53 Matrix Spike Duplicate Manalyte Units MSD Ref % Rec Limit RPD Limit Ref Samp Bate Mercury mg/kg 0.267 0.262 101. 70-130 1.89 20 L516355-04 WG53	Нд	su	6.30	6.30	100.		97.98-102.02	0	20	WG53634
Manalyte	Cyanide	mg/kg	27.7	21.4	98.0		50-150	25.7*	20	WG53675
Matrix Spike Duplicate Duplicate Matrix Spike Duplicate Duplicate Duplicate Duplicate Matrix Spike Duplicate D				Matrix S	pike					
Sulfate mg/kg 532. 4.00 500 106. 80-120 L516426-01 WG53 Senzene mg/kg 0.180 0 .05 72.0 32-137 L516328-08 WG53 Chylbenzene mg/kg 0.185 0 .05 74.0 10-150 L516328-08 WG53 Cotal Xylene mg/kg 0.561 0 .15 74.8 16-141 L516328-08 WG53 Cyanide mg/kg 0.561 0 .15 74.8 16-141 L516328-08 WG53 Cyanide mg/kg 3.24 0 3.33 97.3 80-120 L516355-13 WG53 Analyte Units MSD Ref %Rec Limit RPD Limit Ref Samp Bate Mercury mg/kg 0.267 0.262 101 70-130 1.89 20 L516355-04 WG53	Analyte	Units	MS Res	Ref Re	s TV	% Rec	Limit		Ref Samp	Batch
Matrix Spike Duplicate Marky Matrix Spike Duplicate Marky Matrix Spike Duplicate Marky Matrix Matrix Spike Duplicate Marky Matrix Matrix Matrix Spike Duplicate Matrix Matrix Matrix Spike Duplicate Matrix Matrix Matrix Spike Duplicate Matrix Matrix Matrix Matrix Spike Duplicate Duplicate Matrix Spike Duplicate Duplicate Duplicate Matrix Spike Duplicate Duplicat	Mercury	mg/kg	0.262	0.0150	.25	98.8	70-130		L516355-04	WG53604
Matrix Spike Duplicate Mg/kg 0.267 0.262 101. 70-130 1.89 20 L516355-04 Mg53	Sulfate	mg/kg	532.	4.00	500	106.	80-120		L516426-01	WG53612
Matrix Spike Duplicate Mg/kg 0.267 0.262 101. 70-130 1.89 20 L516355-04 Mg53	Benzene	ma/ka	0.180	0	. 05	72.0	32-137		1.516328-08	WG53625
Toluene mg/kg 0.187 0 .05 74.7 20-142 L516328-08 WG53 mg/kg 0.561 0 .15 74.8 16-141 L516328-08 WG53 a,a,a-Trifluorotoluene(PID) 87.43 54-144 WG53 Cyanide mg/kg 3.24 0 3.33 97.3 80-120 L516355-13 WG53 Cyanide Units MSD Ref %Rec Limit RPD Limit Ref Samp Bate Mercury mg/kg 0.267 0.262 101. 70-130 1.89 20 L516355-04 WG53										WG53625
Matrix Spike Duplicate Mg/kg 0.267 0.262 101. 70-130 1.89 20 L516355-04 WG53 W	Toluene									WG53625
Nation	Total Xylene									WG53625
Matrix Spike Duplicate Units MSD Ref %Rec Limit RPD Limit Ref Samp Batc Mercury mg/kg 0.267 0.262 101. 70-130 1.89 20 L516355-04 WG53	a,a,a-Trifluorotoluene(PID)									WG53625
Analyte Units MSD Ref %Rec Limit RPD Limit Ref Samp Bate Mercury mg/kg 0.267 0.262 101. 70-130 1.89 20 L516355-04 WG53	Cyanide	mg/kg	3.24	0	3,33	97.3	80-120		L516355-13	WG53675
mg/kg 0.267 0.262 101. 70-130 1.89 20 L516355-04 WG53			Mat	rix Spike	Duplicate					
	Analyte	Units				Limit	RPD	Limit	Ref Samp	Batch
	Mercury	mg/kg	0.267	0.262	101.	70-130	1.89	20	L516355-04	WG53604
Sulfate mg/kg 529. 532. 105. 80-120 0.566 20 L516426-01 WG53	Sulfate	ma/ka	529	532	105	80-120	0.566	20	L516426-01	WG53612



YOUR LAB OF CHOICE

XTO Energy - San Juan Division James McDaniel 382 Road 3100

Aztec, NM 87410

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L516365

May 24, 2011

		Ma	atrix Spik	e Duplicate					
Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Benzene	mg/kg	0.185	0.180	74.1	32-137	2.91	39	L516328-08	WG53625
Ethylbenzene	mg/kg	0.190	0.185	75.8	10-150	2.38	44	L516328-08	WG53625
Toluene	mg/kg	0.189	0.187	75.6	20-142	1.15	42	L516328-08	WG53625
Total Xylene	mg/kg	0.572	0.561	76.2	16-141	1.95	46	L516328-08	WG53625
a,a,a-Trifluorotoluene(PID)				89.45	54-144				WG53625
Cyanide	mg/kg	3.44	3.24	103.	80-120	5.99	20	L516355-13	WG53675

Batch number /Run number / Sample number cross reference

WG536048: R1691955: L516365-01 WG536120: R1692610: L516365-01 WG536070: R1692809: L516365-01 WG536259: R16922929: L516365-01 WG536341: R1694309: L516365-01 WG536848: R1697115: L516365-01 WG536757: R1698973: L516365-01

^{*} Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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XTO Energy - San Juan Division James McDaniel 382 Road 3100

Aztec, NM 87410

Quality Assurance Report

L516365

Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

12065 Lebanon Rd.

Tax I.D. 62-0814289

Est. 1970

May 24, 2011

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate — is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Company Name/Address			Alternate Bil	ling				Analy	sis/Co	ontaine	er/Pre	servative			Chain of Custody
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			Report to: Jam	ies McDaniel				1						12065 Leba	non Road
			E-mail to: jame	es_mcdaniel@xt	oenergy.com			5	_					Mt. Juliet TN	37122
Project Description: CORONAD PHONE: 505-333-3701	Client Project	# No.		San Sug Lab Project #	State Collected:	M		7,	e, m	.7				Phone (615) Phone (800) 767-5859
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Please do not besitate to contact HEAL, for any additional information or clarifications

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