NM2 - ___1____

CLOSURE APPROVAL and POST-CLOSURE START DATE (April 11, 2013)

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

John Bemis
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey
Division Director
Oil Conservation Division

April 11, 2013

Mr. James McDaniel
XTO Energy, Inc.
Western Division
382 Road 3100
Aztec, New Mexico 87410

RE: Facility Closure Report Review
XTO Energy, Inc. - Centralized Surface Waste Management Facility
Centralized Evaporation Pond #2: Permit NM-2-001
Location: Section 26, Township 32 North, Range 9 West, NMPM
San Juan County, New Mexico

Dear Mr. McDaniel:

The Oil Conservation Division (OCD) has reviewed XTO Energy, Inc.'s (XTO) revised closure report, dated April 2, 2013, for the centralized surface waste management facility, Centralized Evaporation Pond #2 Permit NM-2-001. Based on the information provided in the facility closure report, OCD recognizes that XTO has achieved clean closure for the facility.

The three year post-closure period shall begin April 11, 2013. XTO shall regularly inspect and maintain the required re-vegetation during the post-closure period pursuant to Subsection F of 19.15.36.18 NMAC. Please note that the surface waste management facility will remain under the regulatory authority of the Oil Conservation Division during the post-closure period.

Please be advised that approval of this request does not relieve XTO of liability if its operations result in pollution of surface water, ground water, or the environment. Nor does approval relieve XTO of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,

Brad A. Jones
Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec

XTO ENERGY

April 2, 2013

Mr. Brad Jones
Oil Conservation Division
1220 South St. Francis Street
Santa Fe, New Mexico 87505

Email: brad.a.jones@state.nm.us
Phone (505) 476-3487

RE: CENTRALIZED EVAPORATION POND #2 CLOSURE REPORT
OCD PERMIT #NM-02-0001

Dear Mr. Jones:

Please accept the attached ***Final Closure Report*** and supporting information for the Centralized Evaporation Pond #2 located in Section 26, Township 32N, Range 9W, San Juan County, New Mexico. Please disregard previous submissions for the Final Closure Report.

Respectfully Submitted,

James McDaniel
EH&S Supervisor
XTO Energy, Inc.
Western Division

CERTIFIED HAZARDOUS MATERIALS MANAGER
JAMES P. McDANIEL
15676
CHMM
EXPIRES MAY 14, 2016

CC: Brandon Powell, NMOCD Aztec Office

RECEIVED OCD
2013 APR -4 P 1:23

SITE NAME:

CENTRALIZED EVAPORATION POND #2
SECTION 26, TOWNSHIP 32N, RANGE 9W
SAN JUAN COUNTY, NEW MEXICO
OCD PERMIT NO. NM-02-0001

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

APRIL 2, 2013

TABLE OF CONTENTS

INTRODUCTION

The Centralized Evaporation Pond #2 (Pond #2) was originally permitted by the New Mexico Oil Conservation Division (OCD) for Koch Exploration in July of 1998, OCD Permit No. NM-02-0001. 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 Blancett Com C #1, Gardner C #1, Gardner C #5 and Gardner C #7 well sites by previous operators. These wells are now owned and operated by XTO, however Pond #2 has not been used by XTO. XTO notified OCD in April 2009 of plans for removing fluids from 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 decided to close Pond #2. A closure plan for this evaporation pond was submitted to your office and approved on December 13, 2010.

SCOPE OF CLOSURE ACTIVITIES

The purpose of this closure report is to provide details of the closure activities performed by XTO for Evaporation Pond #2 located in Section 26, Township 32N, Range 9W.

1) *XTO notified the division's environmental bureau on April 28, 2009 of the cessation of operations at Pond #2 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 December 13, 2010.

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 September 17, 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 December 13, 2010 letter from the NMOCD. 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 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 area accordance with the BLM standards, and as outlined in the attached *Reclamation Plan*.

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 #2 was removed and disposed of at Agua Moss' OCD permitted injection facility, OCD permit number NMOCD-07-162. Approximately 615 yards of sediments 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 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 30 based on depth to groundwater of less than 50 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 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 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. The approved C-141 Release Notification and Corrective Action Form is attached as *Attachment #6.*

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.*

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 as *Attachment #5.*

13) *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

14) *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 #2 located in Section 26, Township 32N, Range 9W, San Juan County, New Mexico. Pending approval of this closure plan, Evaporation Pond #2 will no longer be permitted as a Centralized Waste Facility regulated by the OCD.

James McDaniel, CHMM #15676
EH&S Supervisor
XTO Energy, Inc.

New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson
Governor

Jim Noel
Cabinet Secretary

Karen W. Garcia
Deputy Cabinet Secretary

Mark Fesmire
Division Director
Oil Conservation Division

December 13, 2010

Ms. Kim Champlin
XTO Energy, Inc.
San Juan Division
382 Road 3100
Aztec, New Mexico 87410

RE: Facility Closure Plan Review
XTO Energy, Inc. - Centralized Surface Waste Management Facility
Centralized Evaporation Pond #2: Permit NM-2-001
Location: Section 26, Township 32 North, Range 9 West, NMPM
San Juan County, New Mexico

Dear Ms. Champlin:

The Oil Conservation Division (OCD) has reviewed XTO Energy, Inc.'s (XTO) revised closure plan, dated December 8, 2010, for the centralized surface waste management facility, Centralized Evaporation Pond #2 Permit NM-2-001. Based on the information provided, the facility closure plan **is hereby approved** with the following understandings and conditions:

1. XTO shall comply with all applicable requirements of the Surface Waste Management Rule (19.15.36 NMAC), the Oil and Gas Act (Chapter 70, Article 2 NMSA 1978), and all conditions specified in this approval.

2. XTO shall ensure that that the closure activities identified in the December 8, 2010 revised submittal are completed as proposed in the closure plan.

3. XTO shall ensure that any backfilling and contouring at the facility shall be completed in a manner to prevent erosion and ponding of water.

4. XTO shall remove all above and below grade equipment and materials from the permitted footprint of the facility. This shall include any items not associated with the permitted activities.

5. XTO shall excavate and removal any visual contamination within the permitted facility footprint. The contaminated soils shall be disposed at an OCD approved facility.

6. XTO shall submit a closure report at the completion of the closure activities that summarized the closure activities, including but not limited to, a final closure facility contour map; identification of material disposal facilities; sampling results; backfilling and contouring activities; re-vegetation seeding mixture and application rates; and photo documentation.

Please be advised that approval of this request does not relieve XTO of liability if its operations result in pollution of surface water, ground water, or the environment. Nor does approval relieve XTO of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,

Brad A. Jones
Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec

RECLAMATION PLAN

The purpose of this reclamation plan is to provide a step-by-step list of the reclamation activities proposed by XTO Energy, Inc. for the Centralized Evaporation Pond #2 located in Section 26, Township 32N, Range 9W.

1) Once closure activities for the Centralized Evaporation Pond #2 have been completed pursuant to NMAC 19.15.36.18, the former pond location will be backfilled using on-site material used to build the pond's structure upon its completion. During the ponds completion, native material was excavated to create the pond, and the native material was used to build the external structure of the evaporation pond. XTO Energy, Inc. (XTO) proposes to use the existing, native soil to backfill the former pond location, supplementing with outside sources of material should enough native material not be available on site. All supplemental soil will be added to the top portion of the backfilled location, and will match the native soil type.

2) The site will be graded according to the attached ***Grading Plan*** prepared by Geomat, Inc. (Geomat). The grading plan was completed using survey points in and around the former location of the Centralized Evaporation Pond #2 in order to match the natural grade of the surrounding area. This will be done in such a way as to minimize sheet and rill erosion as well as to prevent surface ponding in the reclamation area.

3) The site will be seeded using the approved seed mixture of the Farmington Field Office (FFO) of the Bureau of Land Management (BLM) for the area in which the pond is located. Seeding will be re-completed after the second growing season if satisfactory cover is not achieved. XTO will provide signs and surface roughening in order to protect seed and seedling establishment.

4) XTO will monitor the site quarterly, except during winter months due to poor road conditions, in order to monitor the progress of the reclamation area. Excessive weeds will be removed during quarterly monitoring, and progress photos will be collected. An annual report will be submitted to the BLM regarding the progress of the reclamation area for the first three (3) years, or until acceptable coverage has been obtained, whichever comes later. Acceptable coverage is considered 70 percent of the native coverage.

XTO Energy, Inc.
Evaporation Pond #2
Section 26, Township 32N, Range 9W

Photo 1: Evaporation Pond #2 before closure activities

Photo 2: Removing the Liner

XTO Energy, Inc.
Evaporation Pond #2
Section 26, Township 32N, Range 9W

Photo 3: Removing the Liner

Photo 4: Removing the Leak Detection System

XTO Energy, Inc.
Evaporation Pond #2
Section 26, Township 32N, Range 9W

Photo 5: Bottom of Leak Detection System, No Concrete Found

Photo 6: Pond after Liner and Leak Detection Removed

XTO Energy, Inc.
Evaporation Pond #2
Section 26, Township 32N, Range 9W

Photo 7: Pond after Liner and Leak Detection Removed

Photo 8: Outside of Pond near entrance

XTO Energy, Inc.
Evaporation Pond #2
Section 26, Township 32N, Range 9W

Photo 9: Pond after Backfill and Reclamation (View 1)

Photo 10: Pond after Backfill and Reclamation (View 2)

COMPLIANCE / ENGINEERING / REMEDIATION

LT Environmental, Inc.
2243 Main Avenue, Suite 3
Durango, Colorado 81301
T 970.385.1096 / F 970.385.1873

June 28, 2011

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

RE: Soil Investigation Results
XTO Energy, Inc.
Centralized Evaporation Pond #2 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 #2, permit number NM-02-0008 (Site). The Site is located in the southeast ¼ of the northwest ¼ of Section 26 in Township 32 North, Range 9 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 16 and May 23, 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 (west). 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 report is 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.

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

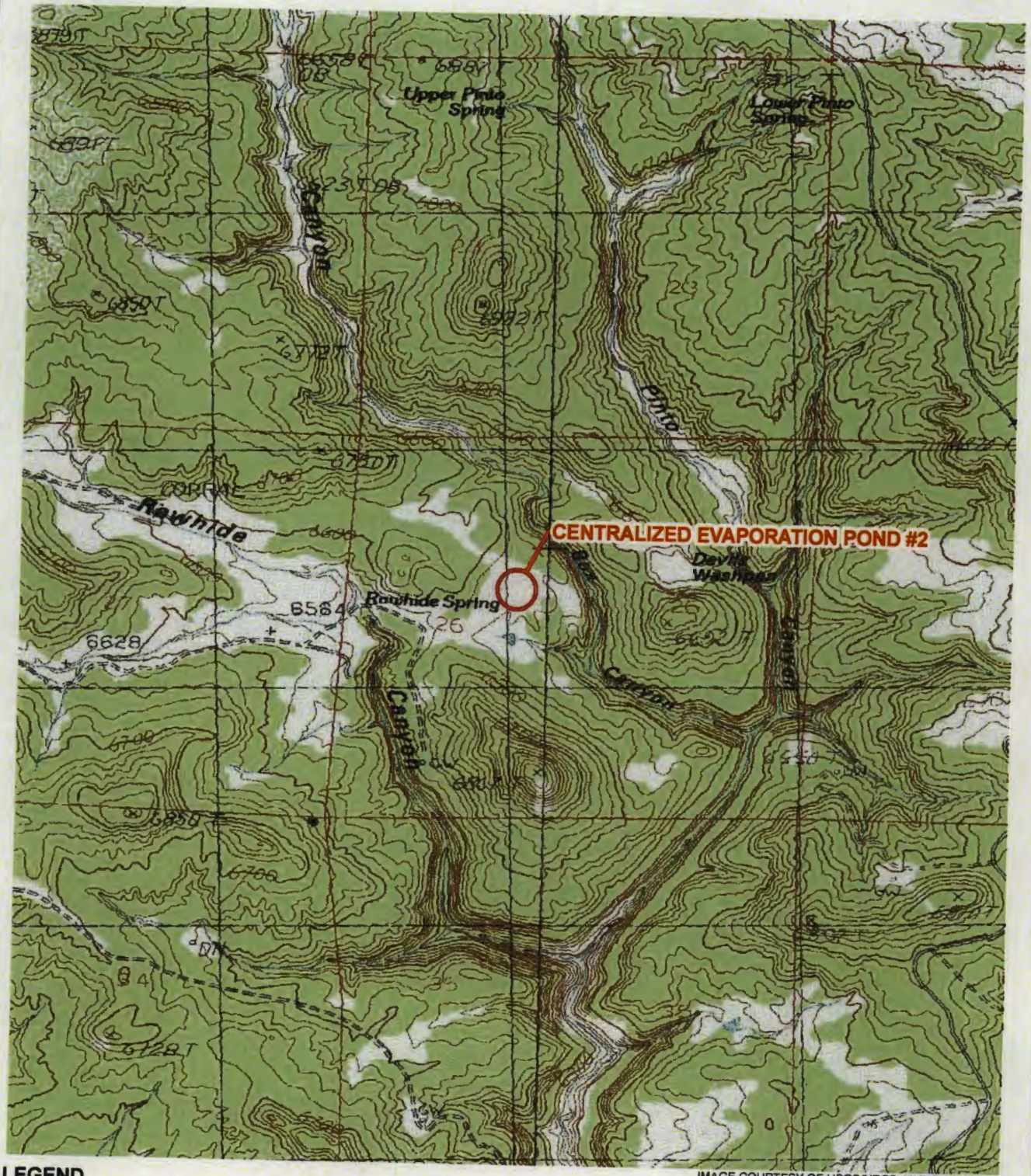


IMAGE COURTESY OF USGS/NRCS, VARIOUS DATES

LEGEND

SITE LOCATION

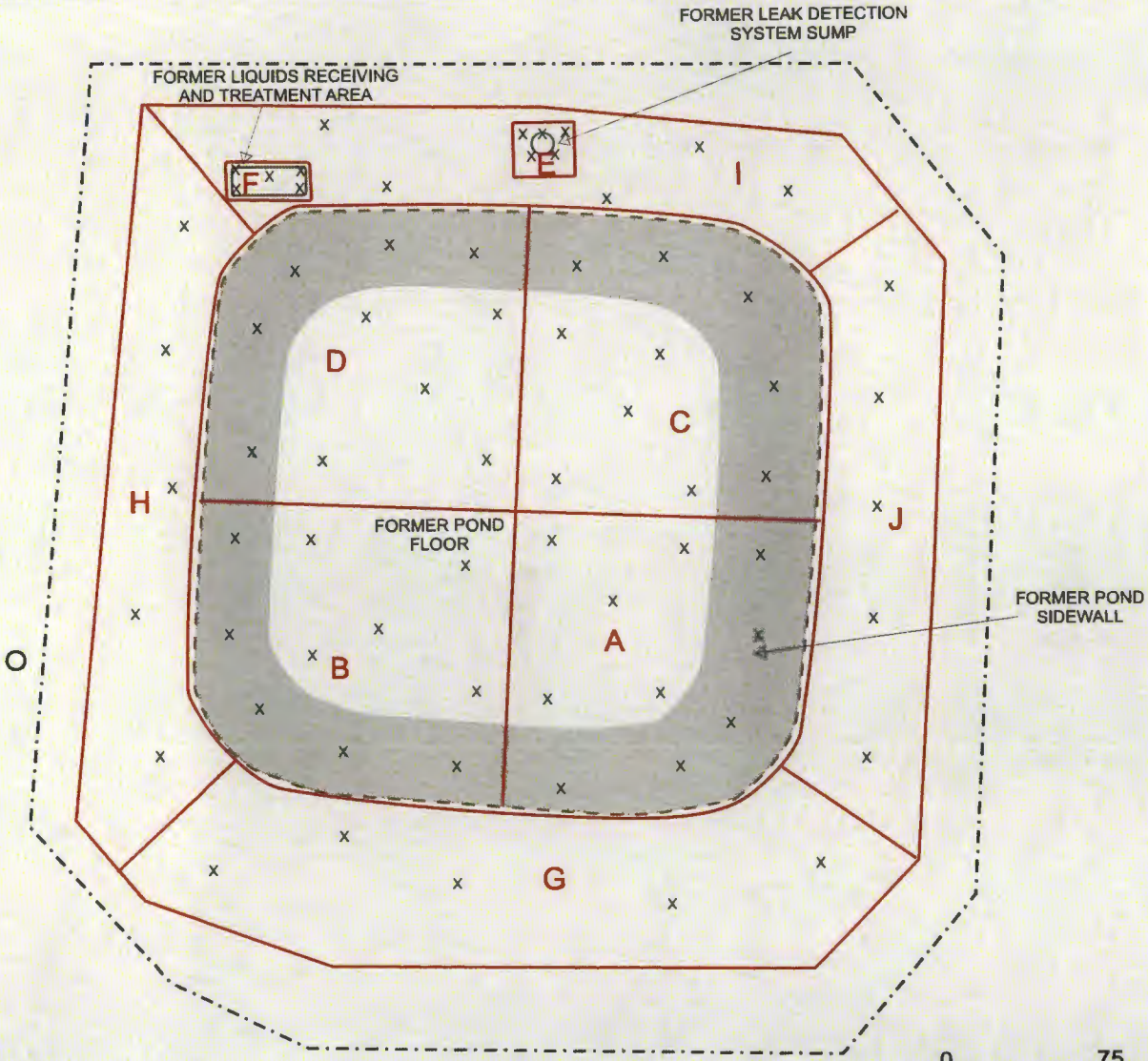
0 2,000 4,000

Feet

N

FIGURE 1
SITE LOCATION MAP
CENTRALIZED EVAPORATION POND #2
SENW SEC 26 T32N R9W
SAN JUAN COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012911006 CORONADO\012911006_CORONADO_#2_FIG01_SL.mxd



LEGEND

- x — ALIQUOT SAMPLE LOCATION
- O — BACKGROUND SAMPLE LOCATION
- A-J — COMPOSITE SAMPLE IDENTIFICATION
- SAMPLE GRID
- FENCE
- FORMER BERM
- FORMER FACILITY EQUIPMENT

0 75 150
FEET

N

FIGURE 2
SOIL SAMPLING LOCATIONS
CENTRALIZED EVAPORATION POND #2
NENW SEC 31 T32N R8W
SAN JUAN COUNTY, NEW MEXICO
XTO ENERGY, INC.

TABLE

TABLE 1

SOIL SAMPLE RESULTS
CENTRALIZED EVAPORATION POND #2
XTO ENERGY, INC.

	Sample ID	Background	A	B	C	D	E	F	G	H	I	J
	Sample Date	5/23/2011	5/23/2011	5/23/2011	5/23/2011	5/23/2011	5/16/2011	5/23/2011	5/23/2011	5/23/2011	5/23/2011	5/23/2011
Analyte	**Units**											
Benzene	mg/kg	<0.0028	<0.0028	<0.0029	<0.0028	<0.0028	<0.0029	<0.0029	<0.0029	<0.0028	<0.0029	<0.0029
Toluene	mg/kg	<0.028	<0.028	<0.029	<0.028	<0.028	<0.029	<0.029	<0.029	<0.028	<0.029	<0.029
Ethylbenzene	mg/kg	<0.0028	<0.0028	<0.0029	<0.0028	<0.0028	<0.0029	<0.0029	<0.0029	<0.0028	<0.0029	<0.0029
Total Xylene	mg/kg	<0.0084	<0.0085	<0.0086	<0.0085	<0.0086	<0.0086	<0.0086	<0.0086	<0.0085	<0.0087	<0.0088
Total Petroleum Hydrocarbons	mg/kg	<20	<20	<20	<20	<20	<20	43	<20	<20	<20	<20
pH	S.U.	8.1	8.3	8.2	9.3	8.7	7.6	8.7	9.3	10.0	8.7	9.6
Total Dissolved Solids	%	89	88	87	88	88	87	87	87	88	87	86
Sulfate	mg/kg	<56	190	360	190	110	370	<57	560	400	490	500
Nitrate	mg/kg	6.4	<1.1	1.6	1.8	<1.1	2.9	5.6	7.7	3.7	11.0	7.9
Chloride	mg/kg	58	69	68	120	68	140	150	620	560	370	680
Uranium	mg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50	<25
Arsenic	mg/kg	2.1	1.9	1.6	<1.1	<1.1	2.4	3.3	1.4	<1.1	1.2	<1.2
Barium	mg/kg	780	160	640	220	220	200	250	300	1,000	270	470
Cadmium	mg/kg	<0.28	<0.28	<0.29	<0.28	<0.28	0.48	<0.29	<0.29	<0.28	<0.29	<0.29
Chromium	mg/kg	9.7	10.0	11.0	10.0	11.0	12.0	13.0	13.0	11.0	10.0	12.0
Cyanide	mg/kg	<0.28	<0.28	<0.29	<0.28	<0.28	<0.29	<0.29	<0.29	<0.28	<0.29	<0.29
Fluoride	mg/kg	3.3	17.0	16.0	17.0	12.0	7.2	6.2	14.0	26.0	28.0	17.0
Lead	mg/kg	11.0	9.3	10.0	9.5	10.0	8.7	12.0	11.0	10.0	9.8	10.0
Mercury	mg/kg	<0.022	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
Selenium	mg/kg	<1.1	4.6	<1.1	1.6	1.8	11.0	<1.1	1.2	<1.1	<1.2	<1.2
Silver	mg/kg	<0.56	<0.57	0.64	<0.57	0.80	<0.58	0.63	0.60	0.72	<0.58	0.64
Copper	mg/kg	9.1	10.0	10.0	13.0	10.0	13.0	8.9	11.0	12.0	12.0	11.0
Iron	mg/kg	14,000	13,000	16,000	16,000	18,000	14,000	15,000	18,000	17,000	16,000	18,000
Manganese	mg/kg	380	140	250	200	190	310	370	230	170	170	190
Zinc	mg/kg	38	34	50	47	47	31	41	53	50	52	51
Radium-226	pCi/g	0.700	0.963	1.050	1.050	1.040	1.010	1.050	0.906	1.220	1.050	0.906
Radium -228	pCi/g	1.300	1.480	1.340	1.450	1.280	1.830	1.160	1.440	1.460	1.280	1.210
Combined Radioactivity	pCi/g	2.000	2.443	2.390	2.500	2.320	2.840	2.210	2.346	2.680	2.330	2.116

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

APPENDIX A

LABORATORY ANALYTICAL REPORTS

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
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Est. 1970

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

Report Summary

Friday June 03, 2011

Report Number: L517393
Samples Received: 05/24/11
Client Project:

Description: Coronado Pond 2

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 R Richards
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.

Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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REPORT OF ANALYSIS

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

June 03,2011

ESC Sample # : L517393-01

Date Received : May 24, 2011
Description : Coronado Pond 2

Site ID : CORONADO POND 2

Sample ID : A

Project # :

Collected By :
Collection Date : 05/23/11 12:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	69.	11.	mg/kg	9056	05/25/11	1
Fluoride	17.	1.1	mg/kg	9056	05/25/11	1
Nitrate	BDL	1.1	mg/kg	9056	05/25/11	1
Sulfate	190	57.	mg/kg	9056	05/25/11	1
Cyanide	BDL	0.28	mg/kg	9012B	06/02/11	1
pH	8.3		su	9045D	05/27/11	1
Total Solids	88.		%	2540G	06/01/11	1
Mercury	BDL	0.023	mg/kg	7471	05/26/11	1
Arsenic	1.9	1.1	mg/kg	6010B	05/26/11	1
Barium	160	0.28	mg/kg	6010B	05/26/11	1
Cadmium	BDL	0.28	mg/kg	6010B	05/26/11	1
Chromium	10.	0.57	mg/kg	6010B	05/26/11	1
Copper	10.	1.1	mg/kg	6010B	05/26/11	1
Iron	13000	5.7	mg/kg	6010B	05/26/11	1
Lead	9.3	0.28	mg/kg	6010B	05/26/11	1
Manganese	140	0.57	mg/kg	6010B	05/26/11	1
Selenium	4.6	1.1	mg/kg	6010B	05/26/11	1
Silver	BDL	0.57	mg/kg	6010B	05/26/11	1
Zinc	34.	1.7	mg/kg	6010B	05/26/11	1
Benzene	BDL	0.0028	mg/kg	8021B	05/25/11	5
Toluene	BDL	0.028	mg/kg	8021B	05/25/11	5
Ethylbenzene	BDL	0.0028	mg/kg	8021B	05/25/11	5
Total Xylene	BDL	0.0085	mg/kg	8021B	05/25/11	5
Surrogate Recovery(%)						
a,a,a-Trifluorotoluene(PID)	99.0		% Rec.	8021B	05/25/11	5

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

The reported analytical results relate only to the sample submitted
Reported: 06/03/11 14:07 Printed: 06/03/11 14:30
L517393-01 (PH) - 8.3@21.0c

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REPORT OF ANALYSIS

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

June 03,2011

ESC Sample # : L517393-02

Date Received : May 24, 2011
Description : Coronado Pond 2

Site ID : CORONADO POND 2

Sample ID : B

Project # :

Collected By :
Collection Date : 05/23/11 12:06

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	68.	11.	mg/kg	9056	05/25/11	1
Fluoride	16.	1.1	mg/kg	9056	05/25/11	1
Nitrate	1.6	1.1	mg/kg	9056	05/25/11	1
Sulfate	360	57.	mg/kg	9056	05/25/11	1
Cyanide	BDL	0.29	mg/kg	9012B	05/26/11	1
pH	8.2		su	9045D	05/27/11	1
Total Solids	87.		%	2540G	06/01/11	1
Mercury	BDL	0.023	mg/kg	7471	05/25/11	1
Arsenic	1.6	1.1	mg/kg	6010B	05/25/11	1
Barium	640	0.29	mg/kg	6010B	05/25/11	1
Cadmium	BDL	0.29	mg/kg	6010B	05/25/11	1
Chromium	11.	0.57	mg/kg	6010B	05/25/11	1
Copper	10.	1.1	mg/kg	6010B	05/25/11	1
Iron	16000	5.7	mg/kg	6010B	05/25/11	1
Lead	10.	0.29	mg/kg	6010B	05/25/11	1
Manganese	250	0.57	mg/kg	6010B	05/25/11	1
Selenium	BDL	1.1	mg/kg	6010B	05/25/11	1
Silver	0.64	0.57	mg/kg	6010B	05/25/11	1
Zinc	50.	1.7	mg/kg	6010B	05/25/11	1
Benzene	BDL	0.0029	mg/kg	8021B	05/26/11	5
Toluene	BDL	0.029	mg/kg	8021B	05/26/11	5
Ethylbenzene	BDL	0.0029	mg/kg	8021B	05/26/11	5
Total Xylene	BDL	0.0086	mg/kg	8021B	05/26/11	5
Surrogate Recovery(%)						
a,a,a-Trifluorotoluene(PID)	104.		% Rec.	8021B	05/26/11	5

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

The reported analytical results relate only to the sample submitted
Reported: 06/03/11 14:07 Printed: 06/03/11 14:30
L517393-02 (PH) - 8.2@21.0c

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REPORT OF ANALYSIS

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

June 03,2011

ESC Sample # : L517393-03

Site ID : CORONADO POND 2

Project # :

Date Received : May 24, 2011
Description : Coronado Pond 2

Sample ID : C

Collected By :
Collection Date : 05/23/11 12:12

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	120	11.	mg/kg	9056	05/25/11	1
Fluoride	17.	1.1	mg/kg	9056	05/25/11	1
Nitrate	1.8	1.1	mg/kg	9056	05/25/11	1
Sulfate	190	57.	mg/kg	9056	05/25/11	1
Cyanide	BDL	0.28	mg/kg	9012B	05/26/11	1
pH	9.3		su	9045D	05/27/11	1
Total Solids	88.		%	2540G	06/01/11	1
Mercury	BDL	0.023	mg/kg	7471	05/26/11	1
Arsenic	BDL	1.1	mg/kg	6010B	05/25/11	1
Barium	220	0.28	mg/kg	6010B	05/25/11	1
Cadmium	BDL	0.28	mg/kg	6010B	05/25/11	1
Chromium	10.	0.57	mg/kg	6010B	05/25/11	1
Copper	13.	1.1	mg/kg	6010B	05/25/11	1
Iron	16000	5.7	mg/kg	6010B	05/25/11	1
Lead	9.5	0.28	mg/kg	6010B	05/25/11	1
Manganese	200	0.57	mg/kg	6010B	05/25/11	1
Selenium	1.6	1.1	mg/kg	6010B	05/25/11	1
Silver	BDL	0.57	mg/kg	6010B	05/25/11	1
Zinc	47.	1.7	mg/kg	6010B	05/25/11	1
Benzene	BDL	0.0028	mg/kg	8021B	05/26/11	5
Toluene	BDL	0.028	mg/kg	8021B	05/26/11	5
Ethylbenzene	BDL	0.0028	mg/kg	8021B	05/26/11	5
Total Xylene	BDL	0.0085	mg/kg	8021B	05/26/11	5
Surrogate Recovery(%)						
a,a,a-Trifluorotoluene(PID)	105.		% Rec.	8021B	05/26/11	5

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

The reported analytical results relate only to the sample submitted
Reported: 06/03/11 14:07 Printed: 06/03/11 14:30
L517393-03 (PH) - 9.3@21.3c

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REPORT OF ANALYSIS

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

June 03,2011

ESC Sample # : L517393-04

Date Received : May 24, 2011
Description : Coronado Pond 2

Site ID : CORONADO POND 2

Sample ID : D

Project # :

Collected By :
Collection Date : 05/23/11 12:17

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	68.	11.	mg/kg	9056	05/25/11	1
Fluoride	12.	1.1	mg/kg	9056	05/25/11	1
Nitrate	BDL	1.1	mg/kg	9056	05/25/11	1
Sulfate	110	57.	mg/kg	9056	05/25/11	1
Cyanide	BDL	0.28	mg/kg	9012B	05/26/11	1
pH	8.7		su	9045D	05/27/11	1
Total Solids	88.		%	2540G	06/01/11	1
Mercury	BDL	0.023	mg/kg	7471	05/26/11	1
Arsenic	BDL	1.1	mg/kg	6010B	05/25/11	1
Barium	220	0.28	mg/kg	6010B	05/25/11	1
Cadmium	BDL	0.28	mg/kg	6010B	05/25/11	1
Chromium	11.	0.57	mg/kg	6010B	05/25/11	1
Copper	10.	1.1	mg/kg	6010B	05/25/11	1
Iron	18000	5.7	mg/kg	6010B	05/25/11	1
Lead	10.	0.28	mg/kg	6010B	05/25/11	1
Manganese	190	0.57	mg/kg	6010B	05/25/11	1
Selenium	1.8	1.1	mg/kg	6010B	05/25/11	1
Silver	0.80	0.57	mg/kg	6010B	05/25/11	1
Zinc	47.	1.7	mg/kg	6010B	05/25/11	1
Benzene	BDL	0.0028	mg/kg	8021B	05/26/11	5
Toluene	BDL	0.028	mg/kg	8021B	05/26/11	5
Ethylbenzene	BDL	0.0028	mg/kg	8021B	05/26/11	5
Total Xylene	BDL	0.0086	mg/kg	8021B	05/26/11	5
Surrogate Recovery(%)						
a,a,a-Trifluorotoluene(PID)	106.		% Rec.	8021B	05/26/11	5

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

The reported analytical results relate only to the sample submitted
Reported: 06/03/11 14:07 Printed: 06/03/11 14:30
L517393-04 (PH) - 8.7@21.1c

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REPORT OF ANALYSIS

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

June 03,2011

ESC Sample # : L517393-05

Date Received : May 24, 2011
Description : Coronado Pond 2

Site ID : CORONADO POND 2

Sample ID : F

Project # :

Collected By :
Collection Date : 05/23/11 12:22

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	150	11.	mg/kg	9056	05/25/11	1
Fluoride	6.2	1.1	mg/kg	9056	05/25/11	1
Nitrate	5.6	1.1	mg/kg	9056	05/25/11	1
Sulfate	BDL	57.	mg/kg	9056	05/25/11	1
Cyanide	BDL	0.29	mg/kg	9012B	05/26/11	1
pH	8.7		su	9045D	05/27/11	1
Total Solids	87.		%	2540G	06/01/11	1
Mercury	BDL	0.023	mg/kg	7471	05/26/11	1
Arsenic	3.3	1.1	mg/kg	6010B	05/25/11	1
Barium	250	0.29	mg/kg	6010B	05/25/11	1
Cadmium	BDL	0.29	mg/kg	6010B	05/25/11	1
Chromium	13.	0.57	mg/kg	6010B	05/25/11	1
Copper	8.9	1.1	mg/kg	6010B	05/25/11	1
Iron	15000	5.7	mg/kg	6010B	05/25/11	1
Lead	12.	0.29	mg/kg	6010B	05/25/11	1
Manganese	370	0.57	mg/kg	6010B	05/25/11	1
Selenium	BDL	1.1	mg/kg	6010B	05/25/11	1
Silver	0.63	0.57	mg/kg	6010B	05/25/11	1
Zinc	41.	1.7	mg/kg	6010B	05/25/11	1
Benzene	BDL	0.0029	mg/kg	8021B	05/26/11	5
Toluene	BDL	0.029	mg/kg	8021B	05/26/11	5
Ethylbenzene	BDL	0.0029	mg/kg	8021B	05/26/11	5
Total Xylene	BDL	0.0086	mg/kg	8021B	05/26/11	5
Surrogate Recovery(%)						
a,a,a-Trifluorotoluene(PID)	105.		% Rec.	8021B	05/26/11	5

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

The reported analytical results relate only to the sample submitted
Reported: 06/03/11 14:07 Printed: 06/03/11 14:30
L517393-05 (PH) - 8.7@21.0c

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REPORT OF ANALYSIS

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

June 03,2011

ESC Sample # : L517393-06

Site ID : CORONADO POND 2

Project # :

Date Received : May 24, 2011
Description : Coronado Pond 2

Sample ID : G

Collected By :
Collection Date : 05/23/11 12:27

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	620	12.	mg/kg	9056	05/25/11	1
Fluoride	14.	1.2	mg/kg	9056	05/25/11	1
Nitrate	7.7	1.2	mg/kg	9056	05/25/11	1
Sulfate	560	58.	mg/kg	9056	05/25/11	1
Cyanide	BDL	0.29	mg/kg	9012B	05/26/11	1
pH	9.3		su	9045D	05/27/11	1
Total Solids	87.		%	2540G	06/01/11	1
Mercury	BDL	0.023	mg/kg	7471	05/26/11	1
Arsenic	1.4	1.2	mg/kg	6010B	05/25/11	1
Barium	300	0.29	mg/kg	6010B	05/25/11	1
Cadmium	BDL	0.29	mg/kg	6010B	05/25/11	1
Chromium	13.	0.58	mg/kg	6010B	05/25/11	1
Copper	11.	1.2	mg/kg	6010B	05/25/11	1
Iron	18000	5.8	mg/kg	6010B	05/25/11	1
Lead	11.	0.29	mg/kg	6010B	05/25/11	1
Manganese	230	0.58	mg/kg	6010B	05/25/11	1
Selenium	1.2	1.2	mg/kg	6010B	05/25/11	1
Silver	0.60	0.58	mg/kg	6010B	05/25/11	1
Zinc	53.	1.7	mg/kg	6010B	05/25/11	1
Benzene	BDL	0.0029	mg/kg	8021B	05/25/11	5
Toluene	BDL	0.029	mg/kg	8021B	05/25/11	5
Ethylbenzene	BDL	0.0029	mg/kg	8021B	05/25/11	5
Total Xylene	BDL	0.0086	mg/kg	8021B	05/25/11	5
Surrogate Recovery(%)						
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021B	05/25/11	5

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

The reported analytical results relate only to the sample submitted
Reported: 06/03/11 14:07 Printed: 06/03/11 14:30
L517393-06 (PH) - 9.3@21.0c

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REPORT OF ANALYSIS

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

June 03,2011

ESC Sample # : L517393-07

Site ID : CORONADO POND 2

Project # :

Date Received : May 24, 2011
Description : Coronado Pond 2

Sample ID : H

Collected By :
Collection Date : 05/23/11 12:39

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	560	11.	mg/kg	9056	05/25/11	1
Fluoride	26.	1.1	mg/kg	9056	05/25/11	1
Nitrate	3.7	1.1	mg/kg	9056	05/25/11	1
Sulfate	400	57.	mg/kg	9056	05/25/11	1
Cyanide	BDL	0.28	mg/kg	9012B	05/26/11	1
pH	10.		su	9045D	05/27/11	1
Total Solids	88.		%	2540G	06/01/11	1
Mercury	BDL	0.023	mg/kg	7471	05/26/11	1
Arsenic	BDL	1.1	mg/kg	6010B	05/26/11	1
Barium	1000	0.28	mg/kg	6010B	05/26/11	1
Cadmium	BDL	0.28	mg/kg	6010B	05/26/11	1
Chromium	11.	0.57	mg/kg	6010B	05/26/11	1
Copper	12.	1.1	mg/kg	6010B	05/26/11	1
Iron	17000	5.7	mg/kg	6010B	05/26/11	1
Lead	10.	0.28	mg/kg	6010B	05/26/11	1
Manganese	170	0.57	mg/kg	6010B	05/26/11	1
Selenium	BDL	1.1	mg/kg	6010B	05/26/11	1
Silver	0.72	0.57	mg/kg	6010B	05/26/11	1
Zinc	50.	1.7	mg/kg	6010B	05/26/11	1
Benzene	BDL	0.0028	mg/kg	8021B	05/25/11	5
Toluene	BDL	0.028	mg/kg	8021B	05/25/11	5
Ethylbenzene	BDL	0.0028	mg/kg	8021B	05/25/11	5
Total Xylene	BDL	0.0085	mg/kg	8021B	05/25/11	5
Surrogate Recovery(%)						
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021B	05/25/11	5

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

The reported analytical results relate only to the sample submitted
Reported: 06/03/11 14:07 Printed: 06/03/11 14:30
L517393-07 (PH) - 10.3@20.7c

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REPORT OF ANALYSIS

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

June 03,2011

ESC Sample # : L517393-08

Site ID : CORONADO POND 2

Project # :

Date Received : May 24, 2011
Description : Coronado Pond 2

Sample ID : I

Collected By :
Collection Date : 05/23/11 12:43

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	370	12.	mg/kg	9056	05/25/11	1
Fluoride	28.	1.2	mg/kg	9056	05/25/11	1
Nitrate	11.	1.2	mg/kg	9056	05/25/11	1
Sulfate	490	58.	mg/kg	9056	05/25/11	1
Cyanide	BDL	0.29	mg/kg	9012B	05/26/11	1
pH	8.7		su	9045D	05/27/11	1
Total Solids	87.		%	2540G	06/01/11	1
Mercury	BDL	0.023	mg/kg	7471	05/26/11	1
Arsenic	1.2	1.2	mg/kg	6010B	05/26/11	1
Barium	270	0.29	mg/kg	6010B	05/26/11	1
Cadmium	BDL	0.29	mg/kg	6010B	05/26/11	1
Chromium	10.	0.58	mg/kg	6010B	05/26/11	1
Copper	12.	1.2	mg/kg	6010B	05/26/11	1
Iron	16000	5.8	mg/kg	6010B	05/26/11	1
Lead	9.8	0.29	mg/kg	6010B	05/26/11	1
Manganese	170	0.58	mg/kg	6010B	05/26/11	1
Selenium	BDL	1.2	mg/kg	6010B	05/26/11	1
Silver	BDL	0.58	mg/kg	6010B	05/26/11	1
Zinc	52.	1.7	mg/kg	6010B	05/26/11	1
Benzene	BDL	0.0029	mg/kg	8021B	05/25/11	5
Toluene	BDL	0.029	mg/kg	8021B	05/25/11	5
Ethylbenzene	BDL	0.0029	mg/kg	8021B	05/25/11	5
Total Xylene	BDL	0.0087	mg/kg	8021B	05/25/11	5
Surrogate Recovery(%)						
a,a,a-Trifluorotoluene(PID)	106.		% Rec.	8021B	05/25/11	5

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

The reported analytical results relate only to the sample submitted
Reported: 06/03/11 14:07 Printed: 06/03/11 14:30
L517393-08 (PH) - 8.7@20.9c

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REPORT OF ANALYSIS

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

June 03,2011

ESC Sample # : L517393-09

Date Received : May 24, 2011
Description : Coronado Pond 2

Site ID : CORONADO POND 2

Sample ID : J

Project # :

Collected By :
Collection Date : 05/23/11 12:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	680	12.	mg/kg	9056	05/25/11	1
Fluoride	17.	1.2	mg/kg	9056	05/25/11	1
Nitrate	7.9	1.2	mg/kg	9056	05/25/11	1
Sulfate	500	58.	mg/kg	9056	05/25/11	1
Cyanide	BDL	0.29	mg/kg	9012B	05/26/11	1
pH	9.6		su	9045D	05/27/11	1
Total Solids	86.		%	2540G	06/01/11	1
Mercury	BDL	0.023	mg/kg	7471	05/26/11	1
Arsenic	BDL	1.2	mg/kg	6010B	05/26/11	1
Barium	470	0.29	mg/kg	6010B	05/26/11	1
Cadmium	BDL	0.29	mg/kg	6010B	05/26/11	1
Chromium	12.	0.58	mg/kg	6010B	05/26/11	1
Copper	11.	1.2	mg/kg	6010B	05/26/11	1
Iron	18000	5.8	mg/kg	6010B	05/26/11	1
Lead	10.	0.29	mg/kg	6010B	05/26/11	1
Manganese	190	0.58	mg/kg	6010B	05/26/11	1
Selenium	BDL	1.2	mg/kg	6010B	05/26/11	1
Silver	0.64	0.58	mg/kg	6010B	05/26/11	1
Zinc	51.	1.8	mg/kg	6010B	05/26/11	1
Benzene	BDL	0.0029	mg/kg	8021B	05/25/11	5
Toluene	BDL	0.029	mg/kg	8021B	05/25/11	5
Ethylbenzene	BDL	0.0029	mg/kg	8021B	05/25/11	5
Total Xylene	BDL	0.0088	mg/kg	8021B	05/25/11	5
Surrogate Recovery(%)						
a,a,a-Trifluorotoluene(PID)	106.		% Rec.	8021B	05/25/11	5

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

The reported analytical results relate only to the sample submitted
Reported: 06/03/11 14:07 Printed: 06/03/11 14:30
L517393-09 (PH) - 9.6@20.6c

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REPORT OF ANALYSIS

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

June 03,2011

ESC Sample # : L517393-10

Date Received : May 24, 2011
Description : Coronado Pond 2

Site ID : CORONADO POND 2

Sample ID : BACKGROUND

Project # :

Collected By :
Collection Date : 05/23/11 12:35

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	58.	11.	mg/kg	9056	05/25/11	1
Fluoride	3.3	1.1	mg/kg	9056	05/25/11	1
Nitrate	6.4	1.1	mg/kg	9056	05/25/11	1
Sulfate	BDL	56.	mg/kg	9056	05/25/11	1
Cyanide	BDL	0.28	mg/kg	9012B	05/26/11	1
pH	8.1		su	9045D	05/27/11	1
Total Solids	89.		%	2540G	06/01/11	1
Mercury	BDL	0.022	mg/kg	7471	05/26/11	1
Arsenic	2.1	1.1	mg/kg	6010B	05/26/11	1
Barium	780	0.28	mg/kg	6010B	05/26/11	1
Cadmium	BDL	0.28	mg/kg	6010B	05/26/11	1
Chromium	9.7	0.56	mg/kg	6010B	05/26/11	1
Copper	9.1	1.1	mg/kg	6010B	05/26/11	1
Iron	14000	5.6	mg/kg	6010B	05/26/11	1
Lead	11.	0.28	mg/kg	6010B	05/26/11	1
Manganese	380	0.56	mg/kg	6010B	05/26/11	1
Selenium	BDL	1.1	mg/kg	6010B	05/26/11	1
Silver	BDL	0.56	mg/kg	6010B	05/26/11	1
Zinc	38.	1.7	mg/kg	6010B	05/26/11	1
Benzene	BDL	0.0028	mg/kg	8021B	05/25/11	5
Toluene	BDL	0.028	mg/kg	8021B	05/25/11	5
Ethylbenzene	BDL	0.0028	mg/kg	8021B	05/25/11	5
Total Xylene	BDL	0.0084	mg/kg	8021B	05/25/11	5
Surrogate Recovery(%)						
a,a,a-Trifluorotoluene(PID)	107.		% Rec.	8021B	05/25/11	5

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

The reported analytical results relate only to the sample submitted
Reported: 06/03/11 14:07 Printed: 06/03/11 14:30
L517393-10 (PH) - 8.1@20.8c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L517393-05	WG537164	SAMP	Barium	R1700509	V
	WG537164	SAMP	Iron	R1700509	V
	WG537164	SAMP	Manganese	R1700509	V
	WG537164	SAMP	Selenium	R1700509	P1

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	(ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries.

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.

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James McDaniel
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Aztec, NM 87410

Quality Assurance Report
Level II

L517393

June 03, 2011

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Benzene	< .0005	mg/kg			WG537267	05/25/11 09:33
Ethylbenzene	< .0005	mg/kg			WG537267	05/25/11 09:33
Toluene	< .005	mg/kg			WG537267	05/25/11 09:33
Total Xylene	< .0015	mg/kg			WG537267	05/25/11 09:33
a,a,a-Trifluorotoluene(PID)		% Rec.	107.2	54-144	WG537267	05/25/11 09:33
Arsenic	< 1	mg/kg			WG537164	05/25/11 11:05
Barium	< .25	mg/kg			WG537164	05/25/11 11:05
Cadmium	< .25	mg/kg			WG537164	05/25/11 11:05
Chromium	< .5	mg/kg			WG537164	05/25/11 11:05
Copper	< 1	mg/kg			WG537164	05/25/11 11:05
Iron	< 5	mg/kg			WG537164	05/25/11 11:05
Lead	< .25	mg/kg			WG537164	05/25/11 11:05
Manganese	< .5	mg/kg			WG537164	05/25/11 11:05
Selenium	< 1	mg/kg			WG537164	05/25/11 11:05
Silver	< .5	mg/kg			WG537164	05/25/11 11:05
Zinc	< 1.5	mg/kg			WG537164	05/25/11 11:05
Chloride	< 10	mg/kg			WG537268	05/25/11 10:44
Fluoride	< 1	mg/kg			WG537268	05/25/11 10:44
Nitrate	< 1	mg/kg			WG537268	05/25/11 10:44
Sulfate	< 50	mg/kg			WG537268	05/25/11 10:44
Mercury	< .02	mg/kg			WG537172	05/25/11 14:35
Benzene	< .0005	mg/kg			WG537316	05/25/11 17:28
Ethylbenzene	< .0005	mg/kg			WG537316	05/25/11 17:28
Toluene	< .005	mg/kg			WG537316	05/25/11 17:28
Total Xylene	< .0015	mg/kg			WG537316	05/25/11 17:28
a,a,a-Trifluorotoluene(PID)		% Rec.	102.6	54-144	WG537316	05/25/11 17:28
Benzene	< .0005	mg/kg			WG537173	05/26/11 01:58
Ethylbenzene	< .0005	mg/kg			WG537173	05/26/11 01:58
Toluene	< .005	mg/kg			WG537173	05/26/11 01:58
Total Xylene	< .0015	mg/kg			WG537173	05/26/11 01:58
a,a,a-Trifluorotoluene(PID)		% Rec.	104.4	54-144	WG537173	05/26/11 01:58
Arsenic	< 1	mg/kg			WG537166	05/26/11 12:16
Barium	< .25	mg/kg			WG537166	05/26/11 12:16
Cadmium	< .25	mg/kg			WG537166	05/26/11 12:16
Chromium	< .5	mg/kg			WG537166	05/26/11 12:16
Copper	< 1	mg/kg			WG537166	05/26/11 12:16
Iron	< 5	mg/kg			WG537166	05/26/11 12:16
Lead	< .25	mg/kg			WG537166	05/26/11 12:16
Manganese	< .5	mg/kg			WG537166	05/26/11 12:16
Selenium	< 1	mg/kg			WG537166	05/26/11 12:16
Silver	< .5	mg/kg			WG537166	05/26/11 12:16
Zinc	< 1.5	mg/kg			WG537166	05/26/11 12:16
Mercury	< .02	mg/kg			WG537237	05/26/11 10:49

* 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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Aztec, NM 87410

Quality Assurance Report
Level II

L517393

June 03, 2011

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Cyanide	< .25	mg/kg			WG537202	05/26/11 13:59
Arsenic	< 1	mg/kg			WG537330	05/26/11 17:21
Barium	< .25	mg/kg			WG537330	05/26/11 17:21
Cadmium	< .25	mg/kg			WG537330	05/26/11 17:21
Chromium	< .5	mg/kg			WG537330	05/26/11 17:21
Copper	< 1	mg/kg			WG537330	05/26/11 17:21
Iron	< 5	mg/kg			WG537330	05/26/11 17:21
Lead	< .25	mg/kg			WG537330	05/26/11 17:21
Manganese	< .5	mg/kg			WG537330	05/26/11 17:21
Selenium	< 1	mg/kg			WG537330	05/26/11 17:21
Silver	< .5	mg/kg			WG537330	05/26/11 17:21
Zinc	< 1.5	mg/kg			WG537330	05/26/11 17:21
pH	3.70	su			WG537706	05/27/11 11:15
Total Solids	< .1	%			WG538160	06/01/11 11:20
Total Solids	< .1	%			WG538159	06/01/11 11:36
Cyanide	< .25	mg/kg			WG538237	06/02/11 12:15

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Arsenic	mg/kg	2.80	2.80	1.42	20	L517393-05	WG537164
Barium	mg/kg	190.	220.	13.1	20	L517393-05	WG537164
Cadmium	mg/kg	0	0	0	20	L517393-05	WG537164
Chromium	mg/kg	11.0	11.0	1.80	20	L517393-05	WG537164
Copper	mg/kg	7.40	7.80	5.26	20	L517393-05	WG537164
Iron	mg/kg	14000	13000	3.77	20	L517393-05	WG537164
Lead	mg/kg	9.80	10.0	1.61	20	L517393-05	WG537164
Manganese	mg/kg	300.	320.	5.79	20	L517393-05	WG537164
Selenium	mg/kg	2.30	0	NA	20	L517393-05	WG537164
Silver	mg/kg	0.660	0.550	18.9	20	L517393-05	WG537164
Zinc	mg/kg	35.0	36.0	2.25	20	L517393-05	WG537164
Sulfate	mg/kg	0	15.5	NA	20	L516850-05	WG537268
Mercury	mg/kg	0.0240	0.0200	19.8	20	L517313-01	WG537172
Arsenic	mg/kg	0.980	1.10	11.8	20	L517397-04	WG537166
Barium	mg/kg	20.0	23.0	16.5	20	L517397-04	WG537166
Cadmium	mg/kg	0	0	0	20	L517397-04	WG537166
Chromium	mg/kg	5.00	5.30	6.03	20	L517397-04	WG537166
Copper	mg/kg	2.90	3.32	12.5	20	L517397-04	WG537166
Iron	mg/kg	5100	5610	8.94	20	L517397-04	WG537166
Lead	mg/kg	2.10	2.30	7.21	20	L517397-04	WG537166
Manganese	mg/kg	140.	162.	12.5	20	L517397-04	WG537166
Selenium	mg/kg	1.10	0	NA	20	L517397-04	WG537166
Silver	mg/kg	0.250	0.320	23.0*	20	L517397-04	WG537166

* 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
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Aztec, NM 87410

Quality Assurance Report
Level II

L517393

June 03, 2011

Analyte	Units	Duplicate Result	Duplicate	RPD	Limit	Ref Samp	Batch
Zinc	mg/kg	11.0	11.7	5.26	20	L517397-04	WG537166
Mercury	mg/kg	0	0	0	20	L517393-01	WG537237
Cyanide	mg/kg	0	0	0	20	L517393-08	WG537202
Cyanide	mg/kg	0	0	0	20	L517237-03	WG537202
Barium	mg/kg	280.	260.	8.47	20	L517500-02	WG537330
Cadmium	mg/kg	0.620	0.580	6.67	20	L517500-02	WG537330
Chromium	mg/kg	18.0	22.0	20.0	20	L517500-02	WG537330
Copper	mg/kg	24.0	25.0	6.19	20	L517500-02	WG537330
Iron	mg/kg	13000	12600	5.41	20	L517500-02	WG537330
Lead	mg/kg	14.0	13.0	6.69	20	L517500-02	WG537330
Manganese	mg/kg	240.	248.	5.38	20	L517500-02	WG537330
Selenium	mg/kg	1.70	1.70	2.38	20	L517500-02	WG537330
Silver	mg/kg	0	0	0	20	L517500-02	WG537330
Zinc	mg/kg	43.0	43.0	0.700	20	L517500-02	WG537330
Arsenic	mg/kg	15.0	14.0	5.56	20	L517500-02	WG537330
pH	su	7.30	7.30	0	1	L517347-02	WG537706
pH	su	8.30	8.30	0	1	L517500-02	WG537706
Total Solids	%	63.0	65.1	2.56	5	L517414-02	WG538160
Total Solids	%	87.0	87.0	0.0934	5	L517313-22	WG538159
Cyanide	mg/kg	0	0	0	20	L517496-01	WG538237

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Benzene	mg/kg	.05	0.0501	100.	76-113	WG537267
Ethylbenzene	mg/kg	.05	0.0501	100.	78-115	WG537267
Toluene	mg/kg	.05	0.0487	97.4	76-114	WG537267
Total Xylene	mg/kg	.15	0.149	99.1	81-118	WG537267
a,a,a-Trifluorotoluene(PID)				105.3	54-144	WG537267
Arsenic	mg/kg	192	170.	88.5	78.6-120.8	WG537164
Barium	mg/kg	420	384.	91.4	78.8-121.4	WG537164
Cadmium	mg/kg	70.1	62.6	89.3	78.5-121.5	WG537164
Chromium	mg/kg	168	159.	94.6	80.4-120.2	WG537164
Copper	mg/kg	122	120.	98.4	81.6-119.7	WG537164
Iron	mg/kg	18100	16400	90.6	50.7-149.7	WG537164
Lead	mg/kg	113	103.	91.2	77.3-122.1	WG537164
Manganese	mg/kg	441	423.	95.9	78.9-120.9	WG537164
Selenium	mg/kg	176	161.	91.5	75.6-125.0	WG537164
Silver	mg/kg	115	111.	96.5	66-133.9	WG537164
Zinc	mg/kg	437	402.	92.0	78.5-121.7	WG537164
Chloride	mg/kg	200	204.	102.	85-115	WG537268

* 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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James McDaniel
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Aztec, NM 87410

Quality Assurance Report
Level II

L517393

June 03, 2011

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Fluoride	mg/kg	20	20.1	101.	85-115	WG537268
Nitrate	mg/kg	20	20.0	100.	85-115	WG537268
Sulfate	mg/kg	200	206.	103.	85-115	WG537268
Mercury	mg/kg	8.77	7.72	88.0	71.6-127.7	WG537172
Benzene	mg/kg	.05	0.0528	106.	76-113	WG537316
Ethylbenzene	mg/kg	.05	0.0534	107.	78-115	WG537316
Toluene	mg/kg	.05	0.0529	106.	76-114	WG537316
Total Xylene	mg/kg	.15	0.161	107.	81-118	WG537316
a,a,a-Trifluorotoluene(PID)				102.6	54-144	WG537316
Benzene	mg/kg	.05	0.0488	97.6	76-113	WG537173
Ethylbenzene	mg/kg	.05	0.0463	92.6	78-115	WG537173
Toluene	mg/kg	.05	0.0475	95.1	76-114	WG537173
Total Xylene	mg/kg	.15	0.144	96.3	81-118	WG537173
a,a,a-Trifluorotoluene(PID)				105.4	54-144	WG537173
Arsenic	mg/kg	192	188.	97.9	78.6-120.8	WG537166
Barium	mg/kg	420	411.	97.9	78.8-121.4	WG537166
Cadmium	mg/kg	70.1	68.4	97.6	78.5-121.5	WG537166
Chromium	mg/kg	168	169.	101.	80.4-120.2	WG537166
Copper	mg/kg	122	123.	101.	81.6-119.7	WG537166
Iron	mg/kg	18100	18500	102.	50.7-149.7	WG537166
Lead	mg/kg	113	114.	101.	77.3-122.1	WG537166
Manganese	mg/kg	441	450.	102.	78.9-120.9	WG537166
Selenium	mg/kg	176	176.	100.	75.6-125.0	WG537166
Silver	mg/kg	115	115.	100.	66-133.9	WG537166
Zinc	mg/kg	437	433.	99.1	78.5-121.7	WG537166
Mercury	mg/kg	8.77	9.78	112.	71.6-127.7	WG537237
Cyanide	mg/kg	28.1	25.8	91.8	50-150	WG537202
Arsenic	mg/kg	192	176.	91.7	78.6-120.8	WG537330
Barium	mg/kg	420	395.	94.0	78.8-121.4	WG537330
Cadmium	mg/kg	70.1	63.8	91.0	78.5-121.5	WG537330
Chromium	mg/kg	168	162.	96.4	80.4-120.2	WG537330
Copper	mg/kg	122	120.	98.4	81.6-119.7	WG537330
Iron	mg/kg	18100	16600	91.7	50.7-149.7	WG537330
Lead	mg/kg	113	105.	92.9	77.3-122.1	WG537330
Manganese	mg/kg	441	410.	93.0	78.9-120.9	WG537330
Selenium	mg/kg	176	170.	96.6	75.6-125.0	WG537330
Silver	mg/kg	115	107.	93.0	66-133.9	WG537330
Zinc	mg/kg	437	397.	90.8	78.5-121.7	WG537330
pH	su	6.3	6.20	98.4	97.98-102.02	WG537706
Total Solids	%	50	50.0	100.	85-155	WG538160

* 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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Est. 1970

XTO Energy - San Juan Division
James McDaniel
382 Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L517393

June 03, 2011

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Total Solids	%	50	50.0	100.	85-155	WG538159
Cyanide	mg/kg	28.1	26.6	94.7	50-150	WG538237

Laboratory Control Sample Duplicate

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
Benzene	mg/kg	0.0494	0.0501	99.0	76-113	1.47	20	WG537267
Ethylbenzene	mg/kg	0.0494	0.0501	99.0	78-115	1.39	20	WG537267
Toluene	mg/kg	0.0479	0.0487	96.0	76-114	1.59	20	WG537267
Total Xylene	mg/kg	0.147	0.149	98.0	81-118	1.43	20	WG537267
a,a,a-Trifluorotoluene(PID)				105.9	54-144			WG537267
Chloride	mg/kg	198.	204.	99.0	85-115	2.99	20	WG537268
Fluoride	mg/kg	19.7	20.1	98.0	85-115	2.01	20	WG537268
Nitrate	mg/kg	19.6	20.0	98.0	85-115	2.02	20	WG537268
Sulfate	mg/kg	202.	206.	101.	85-115	1.96	20	WG537268
Benzene	mg/kg	0.0487	0.0528	97.0	76-113	8.24	20	WG537316
Ethylbenzene	mg/kg	0.0503	0.0534	101.	78-115	5.89	20	WG537316
Toluene	mg/kg	0.0490	0.0529	98.0	76-114	7.70	20	WG537316
Total Xylene	mg/kg	0.152	0.161	102.	81-118	5.58	20	WG537316
a,a,a-Trifluorotoluene(PID)				104.5	54-144			WG537316
Benzene	mg/kg	0.0494	0.0488	99.0	76-113	1.32	20	WG537173
Ethylbenzene	mg/kg	0.0469	0.0463	94.0	78-115	1.41	20	WG537173
Toluene	mg/kg	0.0476	0.0475	95.0	76-114	0.0800	20	WG537173
Total Xylene	mg/kg	0.147	0.144	98.0	81-118	1.51	20	WG537173
a,a,a-Trifluorotoluene(PID)				105.9	54-144			WG537173
Cyanide	mg/kg	28.6	25.8	102.	50-150	10.3	20	WG537202
pH	su	6.20	6.20	98.0	97.98-102.02	0	20	WG537706
Cyanide	mg/kg	25.5	26.6	91.0	50-150	4.22	20	WG538237

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Benzene	mg/kg	0.261	0	.05	104.	32-137	L517288-01	WG537267
Ethylbenzene	mg/kg	0.235	0	.05	94.1	10-150	L517288-01	WG537267
Toluene	mg/kg	0.236	0	.05	94.5	20-142	L517288-01	WG537267
Total Xylene	mg/kg	0.700	0	.15	93.3	16-141	L517288-01	WG537267
a,a,a-Trifluorotoluene(PID)					103.3	54-144		WG537267
Arsenic	mg/kg	49.9	2.80	50	94.2	75-125	L517393-05	WG537164
Barium	mg/kg	257.	220.	50	74.0*	75-125	L517393-05	WG537164
Cadmium	mg/kg	48.1	0	50	96.2	75-125	L517393-05	WG537164
Chromium	mg/kg	60.6	11.0	50	99.2	75-125	L517393-05	WG537164
Copper	mg/kg	59.6	7.80	50	104.	75-125	L517393-05	WG537164

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XTO Energy - San Juan Division
James McDaniel
382 Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L517393

June 03, 2011

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Iron	mg/kg	13600	13000	50	1200*	75-125	L517393-05	WG537164
Lead	mg/kg	59.2	10.0	50	98.4	75-125	L517393-05	WG537164
Manganese	mg/kg	377.	320.	50	114.	75-125	L517393-05	WG537164
Selenium	mg/kg	45.6	0	50	91.2	75-125	L517393-05	WG537164
Silver	mg/kg	50.4	0.550	50	99.7	75-125	L517393-05	WG537164
Zinc	mg/kg	84.5	36.0	50	97.0	75-125	L517393-05	WG537164
Mercury	mg/kg	0.275	0.0200	.25	102.	70-130	L517313-01	WG537172
Benzene	mg/kg	0.214	0	.05	85.4	32-137	L517432-01	WG537316
Ethylbenzene	mg/kg	0.207	0	.05	82.8	10-150	L517432-01	WG537316
Toluene	mg/kg	0.210	0	.05	83.8	20-142	L517432-01	WG537316
Total Xylene	mg/kg	0.627	0	.15	83.6	16-141	L517432-01	WG537316
a,a,a-Trifluorotoluene(PID)					101.0	54-144		WG537316
Benzene	mg/kg	0.227	0	.05	90.8	32-137	L517384-01	WG537173
Ethylbenzene	mg/kg	0.207	0	.05	82.7	10-150	L517384-01	WG537173
Toluene	mg/kg	0.217	0	.05	86.7	20-142	L517384-01	WG537173
Total Xylene	mg/kg	0.644	0	.15	85.8	16-141	L517384-01	WG537173
a,a,a-Trifluorotoluene(PID)					104.1	54-144		WG537173
Arsenic	mg/kg	49.8	1.10	50	97.4	75-125	L517397-04	WG537166
Barium	mg/kg	69.2	23.0	50	92.4	75-125	L517397-04	WG537166
Cadmium	mg/kg	49.5	0	50	99.0	75-125	L517397-04	WG537166
Chromium	mg/kg	54.7	5.30	50	98.8	75-125	L517397-04	WG537166
Copper	mg/kg	52.3	3.32	50	98.0	75-125	L517397-04	WG537166
Iron	mg/kg	5400	5610	50	0*	75-125	L517397-04	WG537166
Lead	mg/kg	53.5	2.30	50	102.	75-125	L517397-04	WG537166
Manganese	mg/kg	204.	162.	50	84.0	75-125	L517397-04	WG537166
Selenium	mg/kg	48.4	0	50	96.8	75-125	L517397-04	WG537166
Silver	mg/kg	48.3	0.320	50	96.0	75-125	L517397-04	WG537166
Zinc	mg/kg	58.1	11.7	50	92.8	75-125	L517397-04	WG537166
Mercury	mg/kg	0.295	0	.25	118.	70-130	L517393-01	WG537237
Cyanide	mg/kg	3.52	0	3.33	106.	80-120	L517393-02	WG537202
Barium	mg/kg	320.	260.	50	120.	75-125	L517500-02	WG537330
Cadmium	mg/kg	36.2	0.580	50	71.2*	75-125	L517500-02	WG537330
Chromium	mg/kg	57.8	22.0	50	71.6*	75-125	L517500-02	WG537330
Copper	mg/kg	68.6	25.0	50	87.2	75-125	L517500-02	WG537330
Iron	mg/kg	13200	12600	50	1200*	75-125	L517500-02	WG537330
Lead	mg/kg	51.4	13.0	50	76.8	75-125	L517500-02	WG537330
Manganese	mg/kg	274.	248.	50	52.0*	75-125	L517500-02	WG537330
Selenium	mg/kg	39.9	1.70	50	76.4	75-125	L517500-02	WG537330
Silver	mg/kg	42.2	0	50	84.4	75-125	L517500-02	WG537330
Zinc	mg/kg	83.4	43.0	50	80.8	75-125	L517500-02	WG537330
Arsenic	mg/kg	57.9	14.0	25	87.8	75-125	L517500-02	WG537330
Cyanide	mg/kg	3.76	0.290	3.33	104.	80-120	L518000-01	WG538237

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XTO Energy - San Juan Division
James McDaniel
382 Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L517393

June 03, 2011

Analyte	Units	Matrix Spike MSD	Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Benzene	mg/kg	0.267	0.261	107.	32-137	2.19	39	L517288-01	WG537267
Ethylbenzene	mg/kg	0.252	0.235	101.	10-150	6.78	44	L517288-01	WG537267
Toluene	mg/kg	0.246	0.236	98.5	20-142	4.13	42	L517288-01	WG537267
Total Xylene	mg/kg	0.749	0.700	99.8	16-141	6.81	46	L517288-01	WG537267
a,a,a-Trifluorotoluene(PID)				105.0	54-144				WG537267
Arsenic	mg/kg	48.3	49.9	91.0	75-125	3.26	20	L517393-05	WG537164
Barium	mg/kg	266.	257.	92.0	75-125	3.44	20	L517393-05	WG537164
Cadmium	mg/kg	44.9	48.1	89.8	75-125	6.88	20	L517393-05	WG537164
Chromium	mg/kg	57.7	60.6	93.4	75-125	4.90	20	L517393-05	WG537164
Copper	mg/kg	56.6	59.6	97.6	75-125	5.16	20	L517393-05	WG537164
Iron	mg/kg	13000	13600	0*	75-125	4.51	20	L517393-05	WG537164
Lead	mg/kg	57.0	59.2	94.0	75-125	3.79	20	L517393-05	WG537164
Manganese	mg/kg	387.	377.	134.*	75-125	2.62	20	L517393-05	WG537164
Selenium	mg/kg	43.5	45.6	87.0	75-125	4.71	20	L517393-05	WG537164
Silver	mg/kg	47.6	50.4	94.1	75-125	5.71	20	L517393-05	WG537164
Zinc	mg/kg	80.6	84.5	89.2	75-125	4.72	20	L517393-05	WG537164
Mercury	mg/kg	0.281	0.275	104.	70-130	2.16	20	L517313-01	WG537172
Benzene	mg/kg	0.217	0.214	87.0	32-137	1.83	39	L517432-01	WG537316
Ethylbenzene	mg/kg	0.221	0.207	88.4	10-150	6.53	44	L517432-01	WG537316
Toluene	mg/kg	0.227	0.210	90.9	20-142	8.05	42	L517432-01	WG537316
Total Xylene	mg/kg	0.673	0.627	89.8	16-141	7.17	46	L517432-01	WG537316
a,a,a-Trifluorotoluene(PID)				100.5	54-144				WG537316
Benzene	mg/kg	0.236	0.227	94.4	32-137	3.98	39	L517384-01	WG537173
Ethylbenzene	mg/kg	0.213	0.207	85.4	10-150	3.13	44	L517384-01	WG537173
Toluene	mg/kg	0.224	0.217	89.4	20-142	3.14	42	L517384-01	WG537173
Total Xylene	mg/kg	0.661	0.644	88.2	16-141	2.74	46	L517384-01	WG537173
a,a,a-Trifluorotoluene(PID)				103.9	54-144				WG537173
Arsenic	mg/kg	51.0	49.8	99.8	75-125	2.38	20	L517397-04	WG537166
Barium	mg/kg	85.5	69.2	125.	75-125	21.1*	20	L517397-04	WG537166
Cadmium	mg/kg	51.6	49.5	103.	75-125	4.15	20	L517397-04	WG537166
Chromium	mg/kg	57.0	54.7	103.	75-125	4.12	20	L517397-04	WG537166
Copper	mg/kg	55.7	52.3	105.	75-125	6.30	20	L517397-04	WG537166
Iron	mg/kg	6320	5400	1420*	75-125	15.7	20	L517397-04	WG537166
Lead	mg/kg	55.1	53.5	106.	75-125	2.95	20	L517397-04	WG537166
Manganese	mg/kg	239.	204.	154.*	75-125	15.8	20	L517397-04	WG537166
Selenium	mg/kg	48.7	48.4	97.4	75-125	0.618	20	L517397-04	WG537166
Silver	mg/kg	50.4	48.3	100.	75-125	4.26	20	L517397-04	WG537166
Zinc	mg/kg	62.2	58.1	101.	75-125	6.82	20	L517397-04	WG537166
Mercury	mg/kg	0.262	0.295	105.	70-130	11.8	20	L517393-01	WG537237
Cyanide	mg/kg	3.60	3.52	108.	80-120	2.25	20	L517393-02	WG537202
Barium	mg/kg	363.	320.	206.*	75-125	12.6	20	L517500-02	WG537330
Cadmium	mg/kg	39.6	36.2	78.0	75-125	8.97	20	L517500-02	WG537330
Chromium	mg/kg	62.6	57.8	81.2	75-125	7.97	20	L517500-02	WG537330
Copper	mg/kg	73.9	68.6	97.8	75-125	7.44	20	L517500-02	WG537330

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XTO Energy - San Juan Division
James McDaniel
382 Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L517393

June 03, 2011

Analyte	Units	Matrix Spike MSD	Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Iron	mg/kg	13300	13200	1400*	75-125	0.755	20	L517500-02	WG537330
Lead	mg/kg	56.3	51.4	86.6	75-125	9.10	20	L517500-02	WG537330
Manganese	mg/kg	280.	274.	64.0*	75-125	2.17	20	L517500-02	WG537330
Selenium	mg/kg	43.8	39.9	84.2	75-125	9.32	20	L517500-02	WG537330
Silver	mg/kg	45.9	42.2	91.8	75-125	8.40	20	L517500-02	WG537330
Zinc	mg/kg	85.5	83.4	85.0	75-125	2.49	20	L517500-02	WG537330
Arsenic	mg/kg	67.1	57.9	106.	75-125	14.7	20	L517500-02	WG537330
Cyanide	mg/kg	3.74	3.76	104.	80-120	0.533	20	L518000-01	WG538237

Batch number /Run number / Sample number cross reference

WG537267: R1700349: L517393-08 09 10
WG537164: R1700509: L517393-02 03 04 05 06
WG537268: R1700996: L517393-01 02 03 04 05 06 07 08 09 10
WG537172: R1701100: L517393-02
WG537316: R1701190: L517393-01 06 07
WG537173: R1701453: L517393-02 03 04 05
WG537166: R1701631: L517393-07 08 09 10
WG537237: R1701773: L517393-01 03 04 05 06 07 08 09 10
WG537202: R1701791: L517393-02 03 04 05 06 07 08 09 10
WG537330: R1702529: L517393-01
WG537706: R1703109: L517393-01 02 03 04 05 06 07 08 09 10
WG538160: R1706451: L517393-05 06 07 08 09 10
WG538159: R1706929: L517393-01 02 03 04
WG538237: R1708909: L517393-01

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
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Quality Assurance Report
Level II

L517393

June 03, 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

XTO Energy, Inc.
382 County Road 3100
Aztec, NM 87410

Alternate Billing: XTORNM031810S

Report to: James McDaniel

E-mail to: james_mcdaniel@xtoenergy.com

Analysis/Container/Preservativ

E153

Chain of Custody
Page 1 of 2

Prepared by:

ENVIRONMENTAL Science corp
12065 Lebanon Road
Mt. Juliet TN 37122
Phone (615)758-5858
Phone (800) 767-5859
FAX (615)758-5859

Project Description: CORONADO POND #2

City/State Collected: San Juan City, NM

PHONE: 505-333-3701
FAX:

Client Project No. -

Lab Project #

Collected by:

Site/Facility ID#: CORONADO POND #2

P.O.#

Collected by(signature):

Packed on Ice N___ Y___

Rush? (Lab MUST be Notified)
_____Next Day.....100%
_____Two Day.....50%
_____Three Day.....25%

Date Results Needed

Email?___No_X__Yes
FAX?___No___Yes

No of Cntrs

CoCode (lab use only)
XTORNM
Template/Prelogin

Shipped Via: Fed Ex

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No of Cntrs	BTEX (8021)	As, Ba, Cd, Cr, CN⁻, F, Pb, Hg, Se	Ag, Cl, Cu, Fe, Mn, Zn	SO4, NO3as N	TDS, pH	Remarks/contaminant	Sample # (lab only)
A	Comp	S/S	0-2"	5/23/11	12:00	2							L517393-01
B					12:06								-02
C					12:12								-03
D					12:17								-04
~~E~~												No Sample Collected ~~BH~~ 5/23/11	-05
F					12:22								-06
G					12:27								-07
H					12:39								-08
I					12:43								

*Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT- Other_____

pH_____ Temp_____

Remarks: "ONLY 1 COC Per Site!!"

Flow_____ Other_____

Relinquisher by:(Signature)	Date: 1500	Time: 5/23/11	Received by:(Signature)	Samples returned via: FedEx_X_ UPS__Other__ 4134198141627 2	Condition (lab use only)	
Relinquisher by:(Signature	Date:	Time:	Received by: (Signature)	Temp: 3.5°C	Bottles Received: 20-402	
Relinquisher by:(Signature	Date:	Time:	Received for lab by: (Signature)	Date: 5/24/11	Time: 0900	pH Checked: NCF: YES

Company Name/Address

XTO Energy, Inc.

382 County Road 3100
Aztec, NM 87410

Alternate Billing

XTORNM031810S

Report to: James McDaniel

E-mail to: james_mcdaniel@xtoenergy.com

Analysis/Container/Preservative

Chain of Custody
Page 2 of 2

Prepared by:

ENVIRONMENTAL Science corp
12065 Lebanon Road
Mt. Juliet TN 37122
Phone (615)758-5858
Phone (800) 767-5859
FAX (615)758-5859

Project Description: CORONADO POND #2

City/State Collected:

PHONE: 505-333-3701
FAX:

Client Project No. –

Lab Project #

Collected by:

Site/Facility ID# CORONADO POND #2

P.O.#

CoCode (lab use only)
XTORNM
Template/Prelogin

Collected by(signature):

Packed on Ice N___ Y___

Rush? (Lab MUST be Notified)
_____Next Day.....100%
_____Two Day.....50%
_____Three Day.....25%

Date Results Needed

Email?___No_X__Yes
FAX?____No___Yes

Shipped Via: Fed Ex

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No of Cntrs	BTEX (8021)	As, Ba, Cd, Cr, CN⁻, F, Pb, Hg, Se	Ag, [illegible], Cl, Cu, Fe, Mn, Zn	SO4, NO3 as N	TDS, pH				Remarks/contaminant	Sample # (lab only)
J	Comp	S/S		5/23/11	12:30	2	✓	✓	✓	✓	✓					L517393-09
Background	Grab	↓		↓	12:35	2	✓	✓	✓	✓	✓					-10

*Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT- Other_____

pH_____ Temp_____

Remarks: "ONLY 1 COC Per Site!!"

Flow_____ Other_____

Relinquisher by:(Signature)	Date:	Time:	Received by:(Signature)	Samples returned via: FedEx_X_ UPS__Other__	Condition (lab use only)
[signature]	5/23/11	1500			(OK) (JF)
Relinquisher by:(Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.5°C / Bottles Received: 2040z	
Relinquisher by:(Signature)	Date:	Time:	Received for lab by: (Signature) [signature]	Date: 5/24/11 / Time: 0900	pH Checked: / NCF: YES

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NON-CONFORMANCE FORM

Login No.: L517393

Date: 05-24-11

Evaluated by: J. Fuller

Client: XTORNM

D

Non-Conformance (check applicable items)

- ☐ Parameter(s) past holding time
- ☐ Improper temperature
- ☐ Improper container type
- ☐ Improper preservation
- ☐ Container lid not intact
- ☑ Login Clarification Needed
- ☐ Chain of custody is incomplete
- ☐ Chain of Custody is missing (see below)
- ☐ Broken container(s) (See below)
- ☐ Broken container: sufficient sample volume remains for analysis requested (See below)

If no COC: Received by_____
Date:_____ Time:_____
Temp:____ Cont. Rec_____ pH:_____
☐ Fedex ☐ UPS ☐SWA ☐ Other_____
Tracking #_____

- ☐ Insufficient packing material around container
- ☐ Insufficient packing material inside cooler
- ☐ Improper handling by carrier (FedEx / UPS / Courier
- ☐ Sample was frozen

Comments: Client asked for TDS. Samples are soil.

Login Instructions: **TSR Initials:** TDK

Client informed by call / (email JM) / fax / voice mail date: 5/24 time: 13:45

Client contact: Notified client TDS is water only

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

Report Summary

Tuesday May 24, 2011

Report Number: L516379
Samples Received: 05/17/11
Client Project:

Description: Coronado Pond 2

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 R Richards
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

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

May 24,2011

ESC Sample # : L516379-01

Site ID : CORONADO POND 2

Project # :

Date Received : May 17, 2011
Description : Coronado Pond 2

Sample ID : E

Collected By : Brooke Herb
Collection Date : 05/16/11 13:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	140	12.	mg/kg	9056	05/18/11	1
Fluoride	7.2	1.2	mg/kg	9056	05/18/11	1
Nitrate	2.9	1.2	mg/kg	9056	05/18/11	1
Sulfate	370	58.	mg/kg	9056	05/18/11	1
Cyanide	BDL	0.29	mg/kg	9012B	05/24/11	1
pH	7.6		su	9045D	05/20/11	1
Total Solids	87.		%	2540G	05/23/11	1
Mercury	BDL	0.023	mg/kg	7471	05/18/11	1
Arsenic	2.4	1.2	mg/kg	6010B	05/19/11	1
Barium	200	0.29	mg/kg	6010B	05/19/11	1
Cadmium	0.48	0.29	mg/kg	6010B	05/19/11	1
Chromium	12.	0.58	mg/kg	6010B	05/19/11	1
Copper	13.	1.2	mg/kg	6010B	05/19/11	1
Iron	14000	5.8	mg/kg	6010B	05/19/11	1
Lead	8.7	0.29	mg/kg	6010B	05/19/11	1
Manganese	310	0.58	mg/kg	6010B	05/19/11	1
Selenium	11.	1.2	mg/kg	6010B	05/19/11	1
Silver	BDL	0.58	mg/kg	6010B	05/20/11	1
Zinc	31.	1.7	mg/kg	6010B	05/19/11	1
Benzene	BDL	0.0029	mg/kg	8021B	05/18/11	5
Toluene	BDL	0.029	mg/kg	8021B	05/18/11	5
Ethylbenzene	BDL	0.0029	mg/kg	8021B	05/18/11	5
Total Xylene	BDL	0.0086	mg/kg	8021B	05/18/11	5
Surrogate Recovery(%)						
a,a,a-Trifluorotoluene(PID)	79.9		% Rec.	8021B	05/18/11	5

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

The reported analytical results relate only to the sample submitted
Reported: 05/24/11 16:42 Printed: 05/24/11 16:43
L516379-01 (PH) - 7.6@20.7c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L516379-01	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 16:43:21

TSR Signing Reports: 288
R5 - Desired TAT

drywt

Sample: L516379-01 Account: XTORNM Received: 05/17/11 09:00 Due Date: 05/24/11 00:00 RPT Date: 05/24/11 16:42

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Quality Assurance Report
Level II

L516379

May 24, 2011

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Chloride	< 10	mg/kg			WG536120	05/18/11 10:38
Fluoride	< 1	mg/kg			WG536120	05/18/11 10:38
Nitrate	< 1	mg/kg			WG536120	05/18/11 10:38
Sulfate	< 50	mg/kg			WG536120	05/18/11 10:38
Mercury	< .02	mg/kg			WG536128	05/18/11 14:32
Benzene	< .0005	mg/kg			WG536259	05/18/11 19:15
Ethylbenzene	< .0005	mg/kg			WG536259	05/18/11 19:15
Toluene	< .005	mg/kg			WG536259	05/18/11 19:15
Total Xylene	< .0015	mg/kg			WG536259	05/18/11 19:15
a,a,a-Trifluorotoluene(PID)		% Rec.	94.62	54-144	WG536259	05/18/11 19:15
Arsenic	< 1	mg/kg			WG536127	05/19/11 12:12
Barium	< .25	mg/kg			WG536127	05/19/11 12:12
Cadmium	< .25	mg/kg			WG536127	05/19/11 12:12
Chromium	< .5	mg/kg			WG536127	05/19/11 12:12
Copper	< 1	mg/kg			WG536127	05/19/11 12:12
Iron	< 5	mg/kg			WG536127	05/19/11 12:12
Lead	< .25	mg/kg			WG536127	05/19/11 12:12
Manganese	< .5	mg/kg			WG536127	05/19/11 12:12
Zinc	< 1.5	mg/kg			WG536127	05/19/11 12:12
Selenium	< 1	mg/kg			WG536127	05/19/11 01:34
pH	4.30	su			WG536341	05/20/11 08:17
Silver	< .5	mg/kg			WG536512	05/20/11 14:48
Total Solids	< .1	%			WG536848	05/23/11 08:53
Cyanide	< .25	mg/kg			WG536757	05/24/11 10:38

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Sulfate	mg/kg	0	6.50	NA	20	L516426-03	WG536120
Sulfate	mg/kg	0	5.30	NA	20	L516426-05	WG536120
Mercury	mg/kg	0.0420	0.0600	35.5*	20	L516382-13	WG536128
Arsenic	mg/kg	5.50	6.30	13.9	20	L516426-03	WG536127
Barium	mg/kg	130.	160.	17.7	20	L516426-03	WG536127
Cadmium	mg/kg	0.750	0.790	4.93	20	L516426-03	WG536127
Chromium	mg/kg	16.0	18.0	8.70	20	L516426-03	WG536127
Copper	mg/kg	12.0	0	NA	20	L516426-03	WG536127
Iron	mg/kg	15000	16000	5.79	20	L516426-03	WG536127
Lead	mg/kg	23.0	25.0	8.77	20	L516426-03	WG536127
Manganese	mg/kg	380.	580.	42.9*	20	L516426-03	WG536127
Selenium	mg/kg	12.0	13.0	8.00	20	L516426-03	WG536127
Zinc	mg/kg	100.	0	NA	20	L516426-03	WG536127

* 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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Quality Assurance Report
Level II

L516379

May 24, 2011

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
pH	su	7.10	7.10	0	1	L516328-08	WG536341
pH	su	9.20	9.20	0	1	L516495-38	WG536341
Silver	mg/kg	0	0	0	20	L516837-01	WG536512
Total Solids	%	72.0	73.8	2.60	5	L516971-07	WG536848
Cyanide	mg/kg	0.670	0.660	1.20	20	L516441-01	WG536757
Cyanide	mg/kg	2.90	0.780	115.*	20	L516355-06	WG536757

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Chloride	mg/kg	200	202.	101.	85-115	WG536120
Fluoride	mg/kg	20	19.7	98.5	85-115	WG536120
Nitrate	mg/kg	20	19.9	99.5	85-115	WG536120
Sulfate	mg/kg	200	202.	101.	85-115	WG536120
Mercury	mg/kg	8.77	7.92	90.3	71.6-127.7	WG536128
Benzene	mg/kg	.05	0.0408	81.5	76-113	WG536259
Ethylbenzene	mg/kg	.05	0.0437	87.4	78-115	WG536259
Toluene	mg/kg	.05	0.0427	85.5	76-114	WG536259
Total Xylene	mg/kg	.15	0.130	86.9	81-118	WG536259
a,a,a-Trifluorotoluene(PID)				92.75	54-144	WG536259
Arsenic	mg/kg	192	162.	84.4	78.6-120.8	WG536127
Barium	mg/kg	420	366.	87.1	78.8-121.4	WG536127
Cadmium	mg/kg	70.1	61.8	88.2	78.5-121.5	WG536127
Chromium	mg/kg	168	149.	88.7	80.4-120.2	WG536127
Copper	mg/kg	122	114.	93.4	81.6-119.7	WG536127
Iron	mg/kg	18100	15600	86.2	50.7-149.7	WG536127
Lead	mg/kg	113	98.1	86.8	77.3-122.1	WG536127
Manganese	mg/kg	441	384.	87.1	78.9-120.9	WG536127
Selenium	mg/kg	176	164.	93.2	75.6-125.0	WG536127
Zinc	mg/kg	437	382.	87.4	78.5-121.7	WG536127
pH	su	6.3	6.30	100.	97.98-102.02	WG536341
Silver	mg/kg	115	100.	87.0	66-133.9	WG536512
Total Solids	%	50	50.0	100.	85-155	WG536848
Cyanide	mg/kg	28.1	21.4	76.2	50-150	WG536757

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
Chloride	mg/kg	207.	202.	104.	85-115	2.44	20	WG536120

* 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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Quality Assurance Report
Level II

L516379

May 24, 2011

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
Fluoride	mg/kg	20.2	19.7	101.	85-115	2.51	20	WG536120
Nitrate	mg/kg	20.3	19.9	102.	85-115	1.99	20	WG536120
Sulfate	mg/kg	208.	202.	104.	85-115	2.93	20	WG536120
Benzene	mg/kg	0.0465	0.0408	93.0	76-113	13.2	20	WG536259
Ethylbenzene	mg/kg	0.0509	0.0437	102.	78-115	15.2	20	WG536259
Toluene	mg/kg	0.0483	0.0427	97.0	76-114	12.3	20	WG536259
Total Xylene	mg/kg	0.152	0.130	102.	81-118	15.6	20	WG536259
a,a,a-Trifluorotoluene(PID)				89.28	54-144			WG536259
pH	su	6.30	6.30	100.	97.98-102.02	0	20	WG536341
Cyanide	mg/kg	27.7	21.4	98.0	50-150	25.7*	20	WG536757

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Sulfate	mg/kg	532.	4.00	500	106.	80-120	L516426-01	WG536120
Mercury	mg/kg	0.340	0.0600	.25	112.	70-130	L516382-13	WG536128
Benzene	mg/kg	0.180	0	.05	72.0	32-137	L516328-08	WG536259
Ethylbenzene	mg/kg	0.185	0	.05	74.0	10-150	L516328-08	WG536259
Toluene	mg/kg	0.187	0	.05	74.7	20-142	L516328-08	WG536259
Total Xylene	mg/kg	0.561	0	.15	74.8	16-141	L516328-08	WG536259
a,a,a-Trifluorotoluene(PID)					87.43	54-144		WG536259
Arsenic	mg/kg	47.3	6.30	50	82.0	75-125	L516426-03	WG536127
Barium	mg/kg	203.	160.	50	86.0	75-125	L516426-03	WG536127
Cadmium	mg/kg	41.4	0.790	50	81.2	75-125	L516426-03	WG536127
Chromium	mg/kg	60.2	18.0	50	84.4	75-125	L516426-03	WG536127
Copper	mg/kg	59.9	0	50	120.	75-125	L516426-03	WG536127
Iron	mg/kg	15700	16000	50	0*	75-125	L516426-03	WG536127
Lead	mg/kg	66.7	25.0	50	83.4	75-125	L516426-03	WG536127
Manganese	mg/kg	637.	580.	50	114.	75-125	L516426-03	WG536127
Selenium	mg/kg	52.8	13.0	50	79.6	75-125	L516426-03	WG536127
Zinc	mg/kg	143.	0	50	286.*	75-125	L516426-03	WG536127
Silver	mg/kg	47.8	0	50	95.6	75-125	L516837-01	WG536512
Cyanide	mg/kg	3.24	0	3.33	97.3	80-120	L516355-13	WG536757

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Sulfate	mg/kg	529.	532.	105.	80-120	0.566	20	L516426-01	WG536120
Mercury	mg/kg	0.359	0.340	120.	70-130	5.44	20	L516382-13	WG536128

* 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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Quality Assurance Report
Level II

L516379

May 24, 2011

Analyte	Units	Matrix Spike MSD	Ref	%Rec	Limit	Duplicate RPD	Limit	Ref Samp	Batch
Benzene	mg/kg	0.185	0.180	74.1	32-137	2.91	39	L516328-08	WG536259
Ethylbenzene	mg/kg	0.190	0.185	75.8	10-150	2.38	44	L516328-08	WG536259
Toluene	mg/kg	0.189	0.187	75.6	20-142	1.15	42	L516328-08	WG536259
Total Xylene	mg/kg	0.572	0.561	76.2	16-141	1.95	46	L516328-08	WG536259
a,a,a-Trifluorotoluene(PID)				89.45	54-144				WG536259
Arsenic	mg/kg	47.1	47.3	81.6	75-125	0.424	20	L516426-03	WG536127
Barium	mg/kg	197.	203.	74.0*	75-125	3.00	20	L516426-03	WG536127
Cadmium	mg/kg	42.1	41.4	82.6	75-125	1.68	20	L516426-03	WG536127
Chromium	mg/kg	62.3	60.2	88.6	75-125	3.43	20	L516426-03	WG536127
Copper	mg/kg	59.6	59.9	119.	75-125	0.502	20	L516426-03	WG536127
Iron	mg/kg	16600	15700	1200*	75-125	5.57	20	L516426-03	WG536127
Lead	mg/kg	64.1	66.7	78.2	75-125	3.98	20	L516426-03	WG536127
Manganese	mg/kg	421.	637.	0*	75-125	40.8*	20	L516426-03	WG536127
Selenium	mg/kg	54.4	52.8	82.8	75-125	2.99	20	L516426-03	WG536127
Zinc	mg/kg	126.	143.	252.*	75-125	12.6	20	L516426-03	WG536127
Silver	mg/kg	44.3	47.8	88.6	75-125	7.60	20	L516837-01	WG536512
Cyanide	mg/kg	3.44	3.24	103.	80-120	5.99	20	L516355-13	WG536757

Batch number /Run number / Sample number cross reference

WG536120: R1692610: L516379-01
WG536128: R1692711: L516379-01
WG536259: R1692929: L516379-01
WG536127: R1693371: L516379-01
WG536341: R1694309: L516379-01
WG536512: R1695110: L516379-01
WG536848: R1697115: L516379-01
WG536757: R1698973: L516379-01

* * 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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Quality Assurance Report
Level II

L516379

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

XTO Energy, Inc.

382 County Road 3100
Aztec, NM 87410

Alternate Billing

XTORNM031810S

Report to: James McDaniel

E-mail to: james_mcdaniel@xtoenergy.com

Project Description: Coronado Pond #2

City/State Collected: San Juan Cty, NM

PHONE: 505-333-3701

FAX:

Client Project No. —

Lab Project #

Collected by: Brooke Herb

Site/Facility ID# Coronado Pond #2

P.O.#

Collected by(signature):

Packed on Ice N___ Y_X

Rush? (Lab MUST be Notified)
_____Next Day.....100%
_____Two Day.....50%
_____Three Day.....25%

Date Results Needed

Email?___No_X__Yes
FAX?___No___Yes

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No of Cntrs	BTEX (8021)	As, Ba, Cd, Cr, CN-, F, Pb, Hg, Se	Ag, Cl, Cu, Fe, Mn, Zn	SO4, NO3 as N	TDS, pH				Remarks/contaminant	Sample # (lab only)
E	Comp	S/S		5/16/11	13:30	2	✓	✓	✓	✓	✓					516379-01

Analysis/Container/Preservative

B039

Chain of Custody Page 1 of 1

Prepared by:

ENVIRONMENTAL Science corp
12065 Lebanon Road
Mt. Juliet TN 37122
Phone (615)758-5858
Phone (800) 767-5859
FAX (615)758-5859

CoCode (lab use only)

XTORNM

Template/Prelogin

Shipped Via: Fed Ex

*Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT- Other_____

pH_____ Temp_____

Remarks: "ONLY 1 COC Per Site!!"

Flow_____ Other_____

Relinquisher by:(Signature)	Date:	Time:	Received by:(Signature)	Samples returned via: FedEx_X_ UPS__Other__	Condition (lab use only)
Brooke Herb	5/16/11	14:30		Temp: 3.4 / Bottles Received: 2-4oz	OK
Relinquisher by:(Signature)	Date:	Time:	Received by: (Signature)		
Relinquisher by:(Signature	Date:	Time:	Received for lab by: (Signature)	Date: 5/17/11 / Time: 0900	pH Checked: NCF:

ESC
L·A·B S·C·I·E·N·C·E·S

NON-CONFORMANCE FORM

Login No.: L516379

Date: 05-17-11

Evaluated by: J. Fuller

Client: XTORNM

Non-Conformance (check applicable items)

- ☐ Parameter(s) past holding time
- ☐ Improper temperature
- ☐ Improper container type
- ☐ Improper preservation
- ☐ Container lid not intact
- ☑ Login Clarification Needed
- ☐ Chain of custody is incomplete
- ☐ Chain of Custody is missing (see below)
- ☐ Broken container(s) (See below)
- ☐ Broken container: sufficient sample volume remains for analysis requested (See below)

If no COC: Received by_____
Date:_____ Time:_____
Temp:____ Cont. Rec_____ pH:_____
☐ Fedex ☐ UPS ☐SWA ☐ Other_____
Tracking #_____

- ☐ Insufficient packing material around container
- ☐ Insufficient packing material inside cooler
- ☐ Improper handling by carrier (FedEx / UPS / Courier
- ☐ Sample was frozen

Comments: we do not run TDS for soils.

Login Instructions: TSR Initials: DK

Client informed by call / (email) / fax / voice mail date: 5/17 time: 14:00 JM

Client contact: informed client

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Monday, June 27, 2011

James McDaniel
XTO Energy
382 County Road 3100
Aztec, NM 87410

TEL: (505) 787-0519
FAX (505) 333-3280

RE: Coronado Pond #2

Order No.: 1105938

Dear James McDaniel:

Hall Environmental Analysis Laboratory, Inc. received 10 sample(s) on 5/24/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Jun-11*
Analytical Report

CLIENT:	XTO Energy	**Client Sample ID:**	A
Lab Order:	1105938	**Collection Date:**	5/23/2011 12:00:00 PM
Project:	Coronado Pond #2	**Date Received:**	5/24/2011
Lab ID:	1105938-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Uranium	ND	25		mg/Kg	5	5/31/2011 11:02:36 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	6/1/2011

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Jun-11*
Analytical Report

CLIENT:	XTO Energy	**Client Sample ID:**	B
Lab Order:	1105938	**Collection Date:**	5/23/2011 12:06:00 PM
Project:	Coronado Pond #2	**Date Received:**	5/24/2011
Lab ID:	1105938-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Uranium	ND	25		mg/Kg	5	5/31/2011 11:04:39 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	6/1/2011

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Jun-11*
Analytical Report

CLIENT:	XTO Energy	**Client Sample ID:**	C
Lab Order:	1105938	**Collection Date:**	5/23/2011 12:12:00 PM
Project:	Coronado Pond #2	**Date Received:**	5/24/2011
Lab ID:	1105938-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Uranium	ND	25		mg/Kg	5	5/31/2011 11:06:35 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	6/1/2011

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Jun-11*
Analytical Report

CLIENT:	XTO Energy	**Client Sample ID:**	D
Lab Order:	1105938	**Collection Date:**	5/23/2011 12:17:00 PM
Project:	Coronado Pond #2	**Date Received:**	5/24/2011
Lab ID:	1105938-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Uranium	ND	25		mg/Kg	5	5/31/2011 11:08:26 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	6/1/2011

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Jun-11*
Analytical Report

CLIENT:	XTO Energy	**Client Sample ID:**	F
Lab Order:	1105938	**Collection Date:**	5/23/2011 12:22:00 PM
Project:	Coronado Pond #2	**Date Received:**	5/24/2011
Lab ID:	1105938-05	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Uranium	ND	25		mg/Kg	5	5/31/2011 11:10:20 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	43	20		mg/Kg	1	6/1/2011

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Jun-11*
Analytical Report

CLIENT:	XTO Energy	**Client Sample ID:**	G
Lab Order:	1105938	**Collection Date:**	5/23/2011 12:27:00 PM
Project:	Coronado Pond #2	**Date Received:**	5/24/2011
Lab ID:	1105938-06	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Uranium	ND	25		mg/Kg	5	5/31/2011 11:12:14 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	6/1/2011

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

CLIENT:	XTO Energy	**Client Sample ID:**	H
Lab Order:	1105938	**Collection Date:**	5/23/2011 12:39:00 PM
Project:	Coronado Pond #2	**Date Received:**	5/24/2011
Lab ID:	1105938-07	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Uranium	ND	25		mg/Kg	5	5/31/2011 11:21:16 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	6/1/2011

Qualifiers:

*	Value exceeds Maximum Contaminant Level
E	Estimated value
J	Analyte detected below quantitation limits
NC	Non-Chlorinated
PQL	Practical Quantitation Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit
S	Spike recovery outside accepted recovery limits

CLIENT:	XTO Energy	**Client Sample ID:**	J
Lab Order:	1105938	**Collection Date:**	5/23/2011 12:43:00 PM
Project:	Coronado Pond #2	**Date Received:**	5/24/2011
Lab ID:	1105938-08	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Uranium	ND	50		mg/Kg	10	5/31/2011 11:23:12 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	6/1/2011

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

CLIENT:	XTO Energy	**Client Sample ID:**	J
Lab Order:	1105938	**Collection Date:**	5/23/2011 12:30:00 PM
Project:	Coronado Pond #2	**Date Received:**	5/24/2011
Lab ID:	1105938-09	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Uranium	ND	25		mg/Kg	5	5/31/2011 11:26:41 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	6/1/2011

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

CLIENT:	XTO Energy	**Client Sample ID:**	Background
Lab Order:	1105938	**Collection Date:**	5/23/2011 12:35:00 PM
Project:	Coronado Pond #2	**Date Received:**	5/24/2011
Lab ID:	1105938-10	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Uranium	ND	25		mg/Kg	5	5/31/2011 11:28:35 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	6/1/2011

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 1105938
Pace Project No.: 3047433

Sample: 1105938-01B **Lab ID: 3047433001** Collected: 05/23/11 12:00 Received: 05/27/11 10:30 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	**0.983 ± 0.189 (0.179)**	pCi/g	06/22/11 09:52	13982-63-3	
Radium-228	EPA 901.1m	**1.48 ± 0.293 (0.268)**	pCi/g	06/22/11 09:52	15262-20-1	

Sample: 1105938-02B **Lab ID: 3047433002** Collected: 05/23/11 12:06 Received: 05/27/11 10:30 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	**1.05 ± 0.195 (0.184)**	pCi/g	06/22/11 10:57	13982-63-3	
Radium-228	EPA 901.1m	**1.34 ± 0.265 (0.281)**	pCi/g	06/22/11 10:57	15262-20-1	

Sample: 1105938-03B **Lab ID: 3047433003** Collected: 05/23/11 12:12 Received: 05/27/11 10:30 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	**1.05 ± 0.206 (0.185)**	pCi/g	06/22/11 12:54	13982-63-3	
Radium-228	EPA 901.1m	**1.45 ± 0.321 (0.238)**	pCi/g	06/22/11 12:54	15262-20-1	

Sample: 1105938-04B **Lab ID: 3047433004** Collected: 05/23/11 12:17 Received: 05/27/11 10:30 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	**1.04 ± 0.179 (0.153)**	pCi/g	06/22/11 14:00	13982-63-3	
Radium-228	EPA 901.1m	**1.28 ± 0.302 (0.262)**	pCi/g	06/22/11 14:00	15262-20-1	

Sample: 1105938-05B **Lab ID: 3047433005** Collected: 05/23/11 12:22 Received: 05/27/11 10:30 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	**1.05 ± 0.201 (0.166)**	pCi/g	06/22/11 15:03	13982-63-3	
Radium-228	EPA 901.1m	**1.16 ± 0.273 (0.264)**	pCi/g	06/22/11 15:03	15262-20-1	

Sample: 1105938-06B **Lab ID: 3047433006** Collected: 05/23/11 12:27 Received: 05/27/11 10:30 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	**0.908 ± 0.191 (0.181)**	pCi/g	06/22/11 16:30	13982-63-3	
Radium-228	EPA 901.1m	**1.44 ± 0.351 (0.291)**	pCi/g	06/22/11 16:30	15262-20-1	

Date: 06/24/2011 02:10 PM

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 1105938
Pace Project No.: 3047433

Sample: 1105938-07B **Lab ID: 3047433007** Collected: 05/23/11 12:39 Received: 05/27/11 10:30 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	**1.22 ± 0.219 (0.172)**	pCi/g	06/23/11 08:57	13982-63-3	
Radium-228	EPA 901.1m	**1.46 ± 0.308 (0.258)**	pCi/g	06/23/11 08:57	15262-20-1	

Sample: 1105938-08B **Lab ID: 3047433008** Collected: 05/23/11 12:43 Received: 05/27/11 10:30 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	**1.05 ± 0.195 (0.178)**	pCi/g	06/23/11 09:59	13982-63-3	
Radium-228	EPA 901.1m	**1.28 ± 0.276 (0.314)**	pCi/g	06/23/11 09:59	15262-20-1	

Sample: 1105938-09B **Lab ID: 3047433009** Collected: 05/23/11 12:30 Received: 05/27/11 10:30 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	**0.906 ± 0.181 (0.170)**	pCi/g	06/23/11 11:03	13982-63-3	
Radium-228	EPA 901.1m	**1.21 ± 0.269 (0.287)**	pCi/g	06/23/11 11:03	15262-20-1	

Sample: 1105938-10B **Lab ID: 3047433010** Collected: 05/23/11 12:35 Received: 05/27/11 10:30 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	**0.700 ± 0.168 (0.179)**	pCi/g	06/23/11 12:56	13982-63-3	
Radium-228	EPA 901.1m	**1.30 ± 0.316 (0.244)**	pCi/g	06/23/11 12:56	15262-20-1	

Date: 06/24/2011 02:10 PM

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 1105938
Pace Project No.: 3047433

QC Batch: RADC/8531 Analysis Method: EPA 901.1m
QC Batch Method: EPA 901.1m Analysis Description: 901.1 Gamma Spec
Associated Lab Samples: 3047433001, 3047433002, 3047433003, 3047433004, 3047433005, 3047433006, 3047433007, 3047433008, 3047433009, 3047433010

METHOD BLANK: 304756 Matrix: Solid
Associated Lab Samples: 3047433001, 3047433002, 3047433003, 3047433004, 3047433005, 3047433006, 3047433007, 3047433008, 3047433009, 3047433010

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-226	-0.027 ± 0.0290 (0.203)	pCi/g	06/23/11 13:58	
Radium-228	-0.078 ± 0.426 (0.295)	pCi/g	06/23/11 13:58	

Date: 06/24/2011 02:10 PM

REPORT OF LABORATORY ANALYSIS

QA/QC SUMMARY REPORT

Client: XTO Energy
Project: Coronado Pond #2 **Work Order:** 1105938

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 418.1: TPH											
Sample ID: MB-27004		*MBLK*				Batch ID: **27004**		Analysis Date:			6/1/2011
Petroleum Hydrocarbons, TR	ND	mg/Kg	20								
Sample ID: LCS-27004		*LCS*				Batch ID: **27004**		Analysis Date:			6/1/2011
Petroleum Hydrocarbons, TR	102.0	mg/Kg	20	100	0	102	81.4	118			
Sample ID: LCSD-27004		*LCSD*				Batch ID: **27004**		Analysis Date:			6/1/2011
Petroleum Hydrocarbons, TR	104.6	mg/Kg	20	100	0	105	81.4	118	2.54	8.58	
Method: EPA Method 6010B: Soil Metals											
Sample ID: MB-26981		*MBLK*				Batch ID: **26981**		Analysis Date:			5/31/2011 8:26:26 AM
Uranium	ND	mg/Kg	5.0								
Sample ID: LCS-26981		*LCS*				Batch ID: **26981**		Analysis Date:			5/31/2011 8:28:22 AM
Uranium	25.48	mg/Kg	5.0	25	0	102	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name XTO ENERGY | Date Received: 5/24/2011

Work Order Number 1105938 | Received by: AMG

Checklist completed by: Signature 5/24/11 Date | Sample ID labels checked by: Initials

Matrix: | Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		Number of preserved bottles checked for pH:
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	*<2 >12 unless noted below.*
Container/Temp Blank temperature?		*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: James McDaniel
XTO Energy
Mailing Address: 382 CR 3100
Aztec, NM
Phone #: 505-757-0519
email or Fax#:
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush
Project Name: Coronado Pond #2
Project #:
Project Manager: James McDaniel
Sampler: Brooke Herb
On Ice: ☒ Yes ☐ No
Sample Temperature:

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1105958	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Uranium	Radioactivity (Combined Radium 226 + 228)		Air Bubbles (Y or N)
5/23/11	12:00	Soil	A	4oz/2	NONE	1				✓								✓	✓		
	12:06		B			2				✓								✓	✓		
	12:12		C			3				✓								✓	✓		
	12:17		D			4				✓								✓	✓		
	12:22		F			5				✓								✓	✓		
	12:27		G			6				✓								✓	✓		
	12:39		H			7				✓								✓	✓		
	12:43		I			8				✓								✓	✓		
	12:30		J			9				✓								✓	✓		
↓	12:35	↓	Background	↓	↓	10				✓								✓	✓		

Date	Time	Relinquished by:	Received by:	Date	Time
5/23/11	1523		Christine Walters	5/23/11	1523
5/23/11	1647	Christine Walters		5/24/11	0913

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Thursday, June 16, 2011

James McDaniel
XTO Energy
382 County Road 3100
Aztec, NM 87410

TEL: (505) 787-0519
FAX (505) 333-3280

RE: Coronado Pond #2

Order No.: 1105696

Dear James McDaniel:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 5/17/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682

4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109
505.345.3975 ■ Fax 505.345.4107
www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc.

Date: *16-Jun-11*

Analytical Report

CLIENT:	XTO Energy	**Client Sample ID:**	E
Lab Order:	1105696	**Collection Date:**	5/16/2011 1:30:00 PM
Project:	Coronado Pond #2	**Date Received:**	5/17/2011
Lab ID:	1105696-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Uranium	ND	25		mg/Kg	5	5/31/2011 12:49:26 PM
EPA METHOD 418.1: TPH						Analyst: **LRW**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	5/20/2011

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 1105696
Pace Project No.: 3047004

Sample: 1105696-01B **Lab ID: 3047004001** Collected: 05/16/11 13:30 Received: 05/20/11 10:00 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	**1.01 ± 0.248 (0.209)**	pCi/g	06/16/11 08:18	13982-63-3	
Radium-228	EPA 901.1m	**1.83 ± 0.427 (0.184)**	pCi/g	06/16/11 08:18	15262-20-1	

Date: 06/16/2011 02:33 PM

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 1105696
Pace Project No.: 3047004

QC Batch: RADC/8455 Analysis Method: EPA 901.1m
QC Batch Method: EPA 901.1m Analysis Description: 901.1 Gamma Spec
Associated Lab Samples: 3047004001

METHOD BLANK: 302759 Matrix: Solid
Associated Lab Samples: 3047004001

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-226	0.0710 ± 0.140 (0.244)	pCi/g	06/16/11 08:50	
Radium-228	-0.041 ± 1.06 (0.407)	pCi/g	06/16/11 08:50	

REPORT OF LABORATORY ANALYSIS

QA/QC SUMMARY REPORT

Client: XTO Energy
Project: Coronado Pond #2 **Work Order:** 1105696

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 418.1: TPH											
Sample ID: MB-26897		*MBLK*				Batch ID:	**26897**	Analysis Date:			5/20/2011
Petroleum Hydrocarbons, TR	ND	mg/Kg	20								
Sample ID: LCS-26897		*LCS*				Batch ID:	**26897**	Analysis Date:			5/20/2011
Petroleum Hydrocarbons, TR	96.86	mg/Kg	20	100	0	96.9	81.4	118			
Sample ID: LCSD-26897		*LCSD*				Batch ID:	**26897**	Analysis Date:			5/20/2011
Petroleum Hydrocarbons, TR	98.20	mg/Kg	20	100	0	98.2	81.4	118	1.37	8.58	
Method: EPA Method 6010B: Soil Metals											
Sample ID: MB-26997		*MBLK*				Batch ID:	**26997**	Analysis Date:			5/31/2011 11:52:18 AM
Uranium	ND	mg/Kg	5.0								
Sample ID: LCS-26997		*LCS*				Batch ID:	**26997**	Analysis Date:			5/31/2011 11:54:15 AM
Uranium	25.49	mg/Kg	5.0	25	0.6564	99.3	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name XTO ENERGY | Date Received: 5/17/2011

Work Order Number 1105696 | Received by: MMG

Checklist completed by: Michelle Garcia 5/17/11 (Signature / Date) | Sample ID labels checked by: AG (Initials)

Matrix: | Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		Number of preserved bottles checked for pH:
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	*<2 >12 unless noted below.*
Container/Temp Blank temperature?	1.0°	*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: James McDaniel
XTO Energy
Mailing Address: 382 CR 3100
Aztec NM
Phone #: 505.757.0519
email or Fax#:
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____
Project Name: Coronado Pond #2
Project #:
Project Manager: James McDaniel
Sampler: Brooke Herb
On Ice: ☒ Yes ☐ No
Sample Temperature: 1.0°

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1105696	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Uranium	Radioactivity (combine Radium 226 & Radium 228)		Air Bubbles (Y or N)
5/16/11	1330	Soil	E	4oz / 2	none	-1				✓								✓	✓		

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time
5/16/11	1422	Brooke Herb	Christine Walker	5/16/11	1422
5/16/11	1612	Christine Walker	Michelle Garcia	5/17/11	10:00

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Ridgeline Seeding & Reclamation, Inc.
PO Box 1375
Ignacio, CO 81137

Invoice

Date	Invoice #
10/10/2012	2851

Bill To
XTO Energy, Inc. 382 C.R. 3100 Aztec NM 87410 Attn.: Brent Beaty

Federal I.D.#	Terms
26-3867207	Due on receipt

Qty	Description	Price Each	Amount
	Location: Evaporation Pond #2; Well #_____; Seeding		
2	09-21-12; Transport Truck/Hourly	120.00	240.00T
2	09-21-12; Pick Up w/ Trailer	85.00	170.00T
4.5	09-24-12; Labor	45.00	202.50T
4.5	09-24-12; Transport Truck/Hourly	120.00	540.00T
4	09-24-12; Pick Up	68.50	274.00T
6	09-24-12; Pick Up w/ Trailer	85.00	510.00T
8	09-24-12; Pick Up w/ Trailer	85.00	680.00T
2.5	09-25-12; Pick Up	68.50	171.25T
9	09-25-12; New Holland 5060 Tractor	83.75	753.75T
2.5	09-25-12; Pick Up	68.50	171.25T
8.5	09-25-12; Labor	45.00	382.50T
2.5	09-26-12; Pick Up	68.50	171.25T
2.5	09-26-12; New Holland 5060 Tractor	83.75	209.38T
3.25	09-26-12; Labor	45.00	146.25T
2	09-26-12; Pick Up	68.50	137.00T
2	09-26-12; Labor	45.00	90.00T
3	09-26-12; Transport Truck/Hourly	120.00	360.00T
4.75	09-26-12; John Deere 7810 w/ Disc	108.75	516.56T
4.75	09-26-12; John Deere 6430 w/ 6' Drill	103.75	492.81T
1.5	09-27-12; Pick Up	68.50	102.75T
4.25	09-27-12; John Deere 6430 w/ Crimper	103.75	440.94T
1.5	09-27-12; Labor	45.00	67.50T
4.25	09-27-12; John Deere 7810 w/ Hay Buster 2654	123.75	525.94T
1	09-27-12; Fertilizer Spreader	75.00	75.00
1	09-27-12; Disposal Fee	38.00	38.00
	Subtotal		7,468.63
106	09-26-12; Farmington Field Office Mix (Lbs.)	7.87	834.22T

Brent Beaty 10-11-12

Total	
Payments/Credits	
Balance Due	

Thank you for your business - We appreciate it very much!

Phone # 970-883-2505
Fax # 970-883-2601

Ridgeline Seeding & Reclamation, Inc.
PO Box 1375
Ignacio, CO 81137

Invoice

Date	Invoice #
10/10/2012	2851

Bill To
XTO Energy, Inc. 382 C.R. 3100 Aztec NM 87410 Attn.: Brent Beaty

Federal I.D.#	Terms
26-3867207	Due on receipt

Qty	Description	Price Each	Amount
16	09-27-12; Straw Bale - 3X4	84.00	1,344.00T
8	09-27-12; 6' Steel Post	8.61	68.88T
	Subtotal		2,247.10
	NM Gross Receipts	5.125%	492.14

Brent Beaty 10-11-12

Total	$10,207.87
Payments/Credits	$0.00
Balance Due	$10,207.87

Thank you for your business - We appreciate it very much!

Phone # 970-883-2305
Fax # 970-883-2601

+ Partial

3.5

Beg 2000.0

3.5 acres

SOUTHWEST SEED INC.
13260 County Road 29
Dolores, CO 81323
Phone: (970) 565-8722

Custom Bulk Seed Mixture Analysis

LOT NO: 2012.0242 5/1/2012

SPECIES: MIXTURE: RIDGELINE SEEDING VARIETY: BLM FARMINGTON FIELD OFFICE

Lot NO	Species	Variety	CL	OR	PURE	INERT	CROP	WEED	Rstr	Nox	Live	PLS	Test Date	Bulk LBS	PLS LBS	Pure %
2008.0849	SHRUB: SALTBUSH-FOURWIN	CO NATIVE		CO	95.57	4.36	0.03	0.04	*	NF	53	50.65	5/16/2011	9.87	5.00	3.26
2010.0505	WHEATGR: WESTERN	ARRIBA	C	CO	98.06	1.73	0.00	0.21	NF	NF	97	95.12	12/29/2011	63.08	60.00	21.40
2010.0758	INDIAN RICEGRASS:	RIMROCK	C	MT	99.68	0.30	0.00	0.02	*	NF	98	97.69	10/24/2011	61.42	60.00	21.19
2011.0027	WHEATGR: CRESTED	HYCREST	C	CO	97.22	2.78	0.00	0.00	NF	NF	93	90.41	4/4/2012	66.36	60.00	22.33
2011.0637	WHEATGR: SLENDER	PRYOR		CAN	95.99	3.85	0.16	0.00	NF	NF	96	92.15	5/16/2011	43.41	40.00	14.42
2011.0695	GRASS C: SQUIRRELTAIL	BOTTLEBRUSH		WA	96.96	2.96	0.05	0.03	*	NF	92	89.20	9/15/2011	44.84	40.00	15.05
													Grand Total	288.98	265.00	

Pure: 97.64% Inert 2.27% Crop 0.03% Weed 0.06% Total 100%

REMARK: 6 BAGS EACH CONTAINING 48.16 BULK #'S (44.166 PLS #'S)
SEEDING RATE 14.45 BULK #'S (13.25 PLS #'S) PER ACRE

Noxious Weeds -seeds/lb:

Evap Pond #2

SOUTHWEST SEED INC.
13260 County Road 29
Dolores, CO 81323
Phone: (970) 565-8722

7.4

Beg 2003.5

4.1

Custom Bulk Seed Mixture Analysis

LOT NO: 2012.0242 5/1/2012

SPECIES: MIXTURE: RIDGELINE SEEDING VARIETY: BLM FARMINGTON FIELD OFFICE

Lot NO	Species	Variety	CL	OR	PURE	INERT	CROP	WEED	Rstr	Nox	Live	PLS	Test Date	Bulk LBS	PLS LBS	Pure %
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2010.0505	WHEATGR: WESTERN	ARRIBA	C	CO	98.06	1.73	0.00	0.21	NF	NF	97	95.12	12/29/2011	63.08	60.00	21.40
2010.0758	INDIAN RICEGRASS:	RIMROCK	C	MT	99.68	0.30	0.00	0.02	*	NF	98	97.69	10/24/2011	61.42	60.00	21.19
2011.0027	WHEATGR: CRESTED	HYCREST	C	CO	97.22	2.78	0.00	0.00	NF	NF	93	90.41	4/4/2012	66.36	60.00	22.33
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REMARK: 6 BAGS EACH CONTAINING 48.16 BULK #'S (44.166 PLS #'S)
SEEDING RATE 14.45 BULK #'S (13.25 PLS #'S) PER ACRE

Noxious Weeds -seeds/lb:

Evap Pond #2

Date	# of days worked	Equipment & Op $	# of XTO employees	#of Contractors	Number of trucks/cy	Lab Sampling $	Rush or Reg	Lab used	Amount of cy hauled to TNT/E-tech/IEI	Cost for disposal $	cost of total disposal $	Cost total	Contractors Used	cost/cy	cost per op/cy
1/7/2013	1	$0.00	3	0	1/10cy	$210.00	rush	esc			$0.00	$210.00			#DIV/0!
1/16/2013	1	$2,610.00	3	4	1/10cy	$210.00	rush	hall	20	$18.00	$360.00	$3,180.00	Adobe	$159.00	$795.00
1/21/2013	1	$1,050.00	1	2	1/10cy				30	$8.00	$240.00	$1,290.00	Adobe	$43.00	$120.00
											$0.00	$0.00		#DIV/0!	#DIV/0!
											$0.00	$0.00		#DIV/0!	#DIV/0!
											$0.00	$0.00		#DIV/0!	#DIV/0!
											$0.00	$0.00		#DIV/0!	#DIV/0!

	Total Numer days worked	Total Cost of Equip and Op	Average number of XTO Emp	Average number of contractors		Total Cost sampling			Total Hauled		Cost of Disposal	Cost Total			
	3	$3,660.00	2.333333333	2		$420.00			50		$600.00	$4,680.00			

Average Total Cost/Day
$1,560.00

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

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: XTO Energy, Inc.	Contact: James McDaniel
Address: 382 Road 3100, Aztec, New Mexico 87410	Telephone No.: (505) 333-3701
Facility Name: Central Evaporation Pond #2 (Permit NM-02-0001)	Facility Type: Evaporation Pond

Surface Owner: Federal	Mineral Owner:	Lease No.:

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	26	32N	9W					San Juan

Latitude: 36.956656 **Longitude:** -107.752204

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: Unknown	Volume Recovered: None
Source of Release: Evaporation Pond	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: NA
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

OIL CONS. DIV DIST. 3

MAR 11 2013

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

On May 23, 2011, LT Environmental collected closure samples beneath the liner of Central Evaporation Pond #2 as outlined in the attached *Soil Sampling Results Report*. The samples were analyzed for each of the constituents outlined in the closure procedures for a centralized waste facility. Chloride results for samples collected in sections G,H,I and J returned results above the 250 mg/kg Spill Confirmation results outlined in the attached *Approved Closure Plan*. This confirmed that a release had occurred at this location. The chlorides found in sections G,H,I and J was the results of overspray, and not a result of a leak in the pond liner. Chlorides collected from sections A, B C and D, which were beneath the pond liner, returned results below the 250 mg/kg standard for the determination of a release. The site was ranked a 30 according to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases due to a drainage at less than 1,000 feet from the location and a depth to groundwater of approximately 40 feet. This set the closure standard to 100 ppm TPH, 10 ppm benzene and 50 ppm total BTEX.

Describe Area Affected and Cleanup Action Taken.*

The analytical results are attached in the *Soil Sampling Results Report*. All results are below the regulatory standards outlined in the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. The NMOCD Guidelines for the Remediation of Leaks, Spills and Releases does not cite a closure standard for chlorides, and based on a depth to groundwater of over 40 feet at this location, a dense, tight shale layer beginning at approximately 12 feet below ground surface, the chloride levels present will not pose a threat to human health and the environment. The dense shale layer was encountered at approximately 12 feet below ground surface during the construction of Evaporation Pond #2, and chloride levels in this shale layer at the bottom of the pond were below the 250 mg/kg standards for the determination of a release.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION	
Printed Name: James McDaniel, CHMM #15676	Approved by District Supervisor:	
Title: EH&S Supervisor	Approval Date: 3/20/13	Expiration Date:
E-mail Address: James_McDaniel@xtoenergy.com	Conditions of Approval:	Attached ☐
Date: 3/11/2013 Phone: 505-333-3701		

CERTIFIED HAZARDOUS MATERIALS MANAGER
JAMES P. McDANIEL
15676
CHMM
EXPIRES MAY 15, 2016

nJK1307953215

SITE NAME:

CENTRALIZED EVAPORATION POND #2
SECTION 26, TOWNSHIP 32N, RANGE 9W
SAN JUAN COUNTY, NEW MEXICO
OCD PERMIT NO. NM-02-0001

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

TABLE OF CONTENTS

INTRODUCTION

The Centralized Evaporation Pond #2 (Pond #2) was originally permitted by the New Mexico Oil Conservation Division (OCD) for Koch Exploration in July of 1998, OCD Permit No. NM-02-0001. 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 Blancett Com C #1, Gardner C #1, Gardner C #5 and Gardner C #7 well sites by previous operators. These wells are now owned and operated by XTO, however Pond #2 has not been used by XTO. XTO notified OCD in April 2009 of plans for removing fluids from 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 decided to close Pond #2. A closure plan for this evaporation pond was submitted to your office and approved on December 13, 2010.

SCOPE OF CLOSURE ACTIVITIES

The purpose of this closure report is to provide details of the closure activities performed by XTO for Evaporation Pond #2 located in Section 26, Township 32N, Range 9W.

1) *XTO notified the division's environmental bureau on April 28, 2009 of the cessation of operations at Pond #2 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 December 13, 2010.

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 September 17, 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 December 13, 2010 letter from the NMOCD. 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 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 area accordance with the BLM standards, and as outlined in the attached *Reclamation Plan*.

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 #2 was removed and disposed of at Agua Moss' OCD permitted injection facility, OCD permit number NMOCD-07-162. Approximately 615 yards of sediments 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 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 30 based on depth to groundwater of less than 50 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 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 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.*

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.

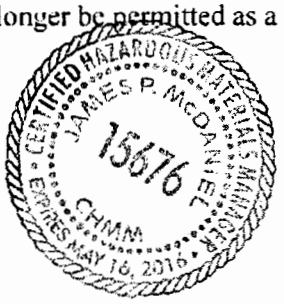
13) The post-closure care period for the evaporation pond closure shall be three years if XTO has achieved clean closure. During that period XTO or another responsible entity shall regularly inspect and maintain the required re-vegetation. If there has been a release to the vadose zone or to groundwater, 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

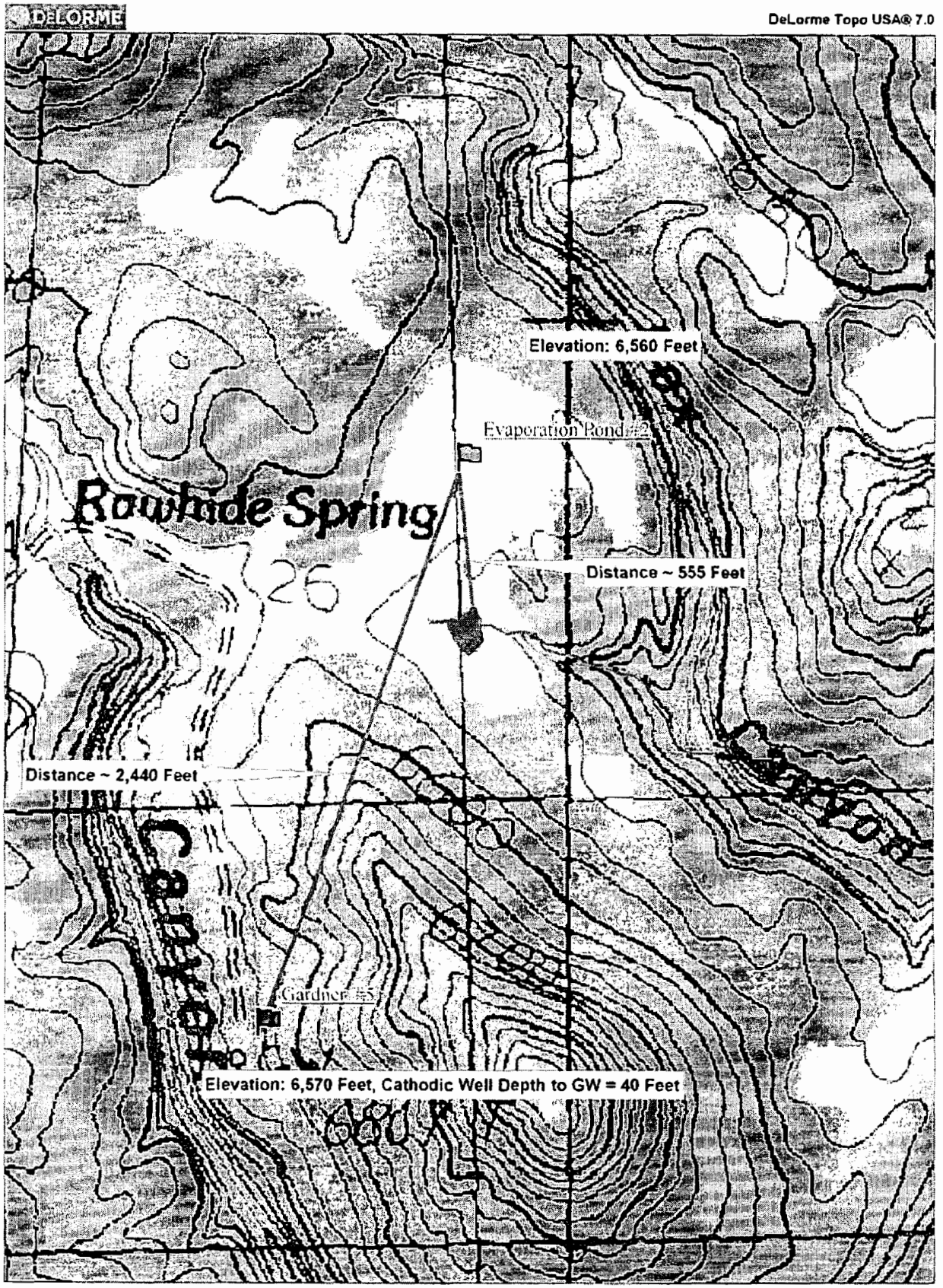
14) Once all closure activities have been completed, a report detailing on-site activities and sampling results will be prepared and submitted to OCD environmental bureau in Santa Fe.

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

XTO Energy, Inc. has completed closure activities at Evaporation Pond #2 located in Section 26, Township 32N, Range 9W, San Juan County, New Mexico. Pending approval of this closure plan, Evaporation Pond #2 will no longer be permitted as a Centralized Waste Facility regulated by the OCD.



James McDaniel, CHMM #15676
EH&S Supervisor


DeLORME
DeLorme Topo USA® 7.0
Elevation: 6,560 Feet
Evaporation Pond #2
Rawhide Spring
26
Distance ~ 555 Feet
Distance ~ 2,440 Feet
Gardner #5
Elevation: 6,570 Feet, Cathodic Well Depth to GW = 40 Feet
Data use subject to license.
© DeLorme. DeLorme Topo USA® 7.0.
www.delorme.com
MN (10.0° E)
0 200 400 600 800 1000 ft
Data Zoom 14-4

5217

30-045-24591

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator KOCH EXPLORATION COMPANY Location: Unit G Sec. 26 Twp 32 Rng 9

Name of Well/Wells or Pipeline Serviced GARDNER-5

Elevation 6570' Completion Date 11-8-85 Total Depth 397' Land Type* F-NM-013642

Casing, Sizes, Types & Depths NONE

If Casing is cemented, show amounts & types used

NONE

If Cement or Bentonite Plugs have been placed, show depths & amounts used

NONE

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. @-40'-CLEAR,ALKALI.

Depths gas encountered: NONE

Type & amount of coke breeze used: METALLURGICAL,3500#

Depths anodes placed: 375'-365'-355'-345'-290'-250'-200'-120'-110'-75'

Depths vent pipes placed: 390'

Vent pipe perforations: FROM 75'DOWN

Remarks:

RECEIVED
MAR 1 6 1990
OIL CON. DIV.
DIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

COMPLIANCE / ENGINEERING / REMEDIATION

LT Environmental, Inc.
2243 Main Avenue, Suite 3
Durango, Colorado 81301
T 970.385.1096 / F 970.385.1873

June 28, 2011

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

RE: Soil Investigation Results
XTO Energy, Inc.
Centralized Evaporation Pond #2 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 #2, permit number NM-02-0008 (Site). The Site is located in the southeast ¼ of the northwest ¼ of Section 26 in Township 32 North, Range 9 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 16 and May 23, 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 (west). 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 report is 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.

Ashley L. Ager, M.S.
Senior Geologist/Office Manager

Brooke Herb
Staff Geologist

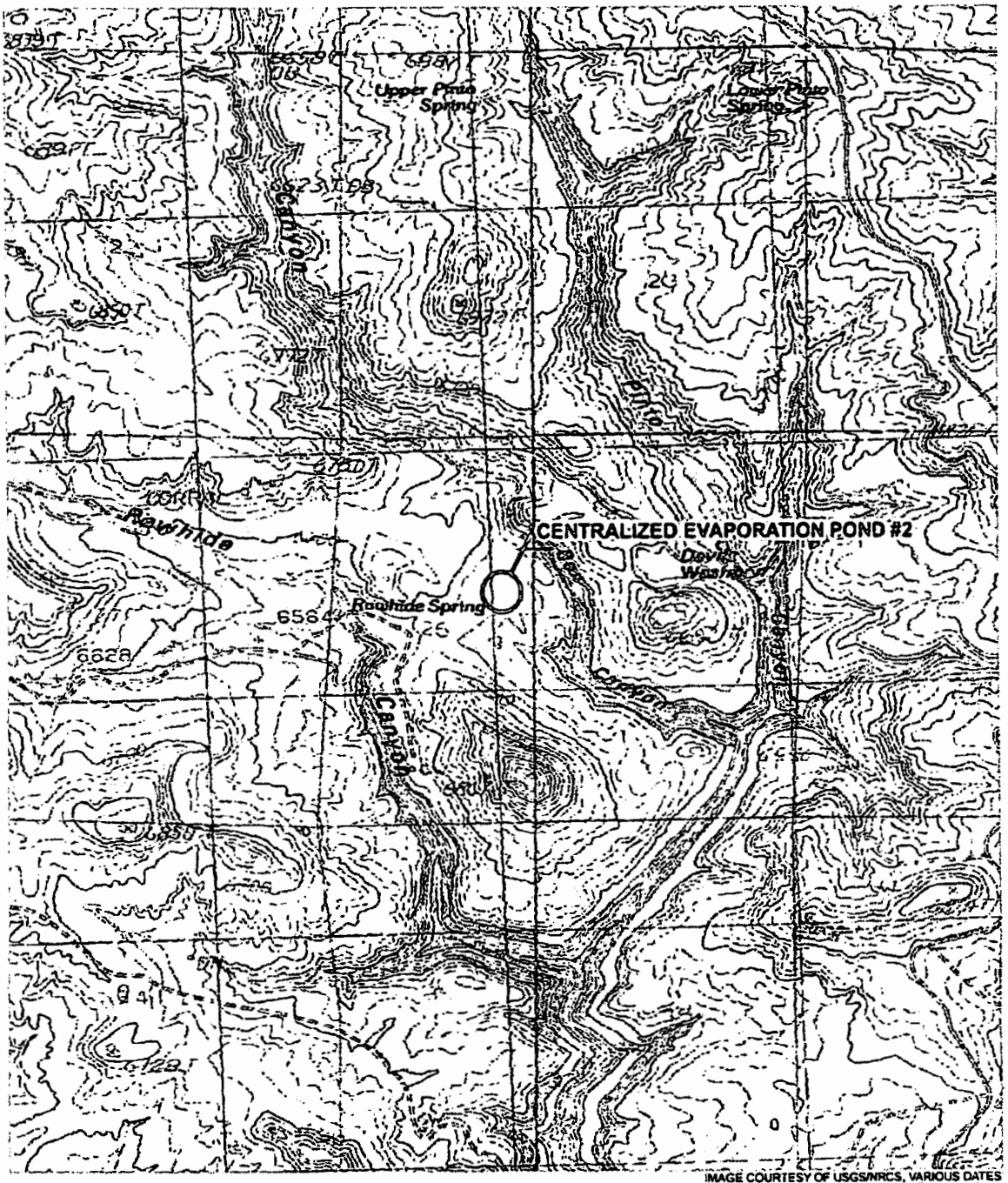
Attachments (4)

Figure 1 – Site Location Map
Figure 2 – Soil Sampling Location Map

Table 1 – Soil Analytical Results

Appendix A – Laboratory Analytical Reports

FIGURES



LEGEND

SITE LOCATION

0 2,000 4,000

Feet

N

FIGURE 1
SITE LOCATION MAP
CENTRALIZED EVAPORATION POND #2
SENW SEC 26 T32N R9W
SAN JUAN COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012911006 CORONADO\012911006_CORONADO_#2_FIG01_SL.mxd

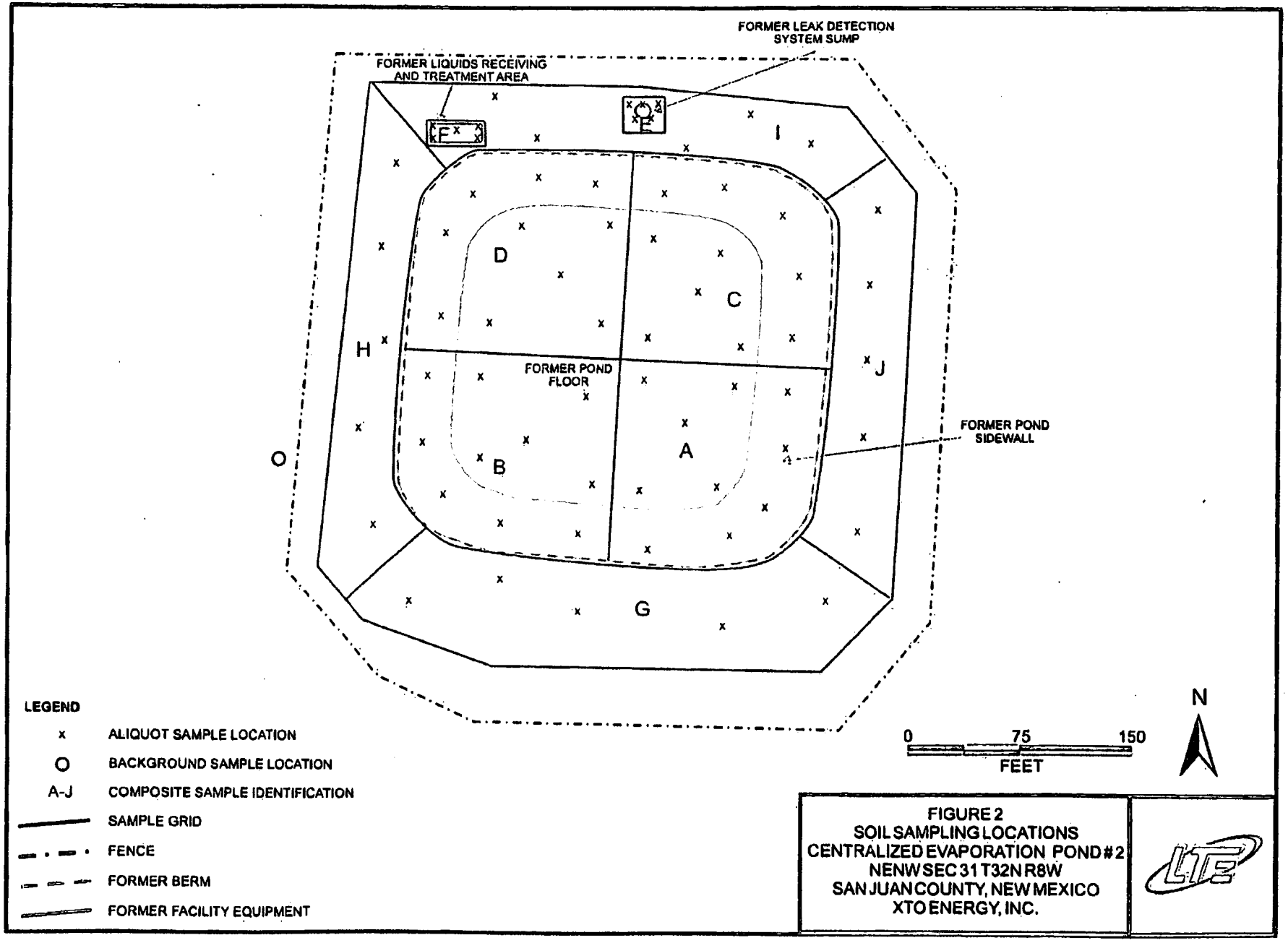


FIGURE 2
SOIL SAMPLING LOCATIONS
CENTRALIZED EVAPORATION POND #2
NENW SEC 31 T32N R8W
SAN JUAN COUNTY, NEW MEXICO
XTO ENERGY, INC.

TABLE

TABLE 1

SOIL SAMPLE RESULTS
CENTRALIZED EVAPORATION POND #2
XTO ENERGY, INC.

	Sample ID	Background	A	B	C	D	E	F	G	H	I	J
	Sample Date	5/23/2011	5/23/2011	5/23/2011	5/23/2011	5/23/2011	5/16/2011	5/23/2011	5/23/2011	5/23/2011	5/23/2011	5/23/2011
Analyte	Units											
Benzene	mg/kg	<0.0028	<0.0028	<0.0029	<0.0028	<0.0028	<0.0029	<0.0029	<0.0029	<0.0028	<0.0029	<0.0029
Toluene	mg/kg	<0.028	<0.028	<0.029	<0.028	<0.028	<0.029	<0.029	<0.029	<0.028	<0.029	<0.029
Ethylbenzene	mg/kg	<0.0028	<0.0028	<0.0029	<0.0028	<0.0028	<0.0029	<0.0029	<0.0029	<0.0028	<0.0029	<0.0029
Total Xylene	mg/kg	<0.0084	<0.0085	<0.0086	<0.0085	<0.0086	<0.0086	<0.0086	<0.0086	<0.0085	<0.0087	<0.0088
Total Petroleum Hydrocarbons	mg/kg	<20	<20	<20	<20	<20	<20	43	<20	<20	<20	<20
pH	S.U.	8.1	8.3	8.2	9.3	8.7	7.6	8.7	9.3	10.0	8.7	9.6
Total Dissolved Solids	%	89	88	87	88	88	87	87	87	88	87	86
Sulfate	mg/kg	<56	190	360	190	110	370	<57	560	400	490	500
Nitrate	mg/kg	6.4	<1.1	1.6	1.8	<1.1	2.9	5.6	7.7	3.7	11.0	7.9
Chloride	mg/kg	58	69	68	120	68	140	150	620	560	370	680
Uranium	mg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50	<25
Arsenic	mg/kg	2.1	1.9	1.6	<1.1	<1.1	2.4	3.3	1.4	<1.1	1.2	<1.2
Barium	mg/kg	780	160	640	220	220	200	250	300	1,000	270	470
Cadmium	mg/kg	<0.28	<0.28	<0.29	<0.28	<0.28	0.48	<0.29	<0.29	<0.28	<0.29	<0.29
Chromium	mg/kg	9.7	10.0	11.0	10.0	11.0	12.0	13.0	13.0	11.0	10.0	12.0
Cyanide	mg/kg	<0.28	<0.28	<0.29	<0.28	<0.28	<0.29	<0.29	<0.29	<0.28	<0.29	<0.29
Fluoride	mg/kg	3.3	17.0	16.0	17.0	12.0	7.2	6.2	14.0	26.0	28.0	17.0
Lead	mg/kg	11.0	9.3	10.0	9.5	10.0	8.7	12.0	11.0	10.0	9.8	10.0
Mercury	mg/kg	<0.022	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
Selenium	mg/kg	<1.1	4.6	<1.1	1.6	1.8	11.0	<1.1	1.2	<1.1	<1.2	<1.2
Silver	mg/kg	<0.56	<0.57	0.64	<0.57	0.80	<0.58	0.63	0.60	0.72	<0.58	0.64
Copper	mg/kg	9.1	10.0	10.0	13.0	10.0	13.0	8.9	11.0	12.0	12.0	11.0
Iron	mg/kg	14,000	13,000	16,000	16,000	18,000	14,000	15,000	18,000	17,000	16,000	18,000
Manganese	mg/kg	380	140	250	200	190	310	370	230	170	170	190
Zinc	mg/kg	38	34	50	47	47	31	41	53	50	52	51
Radium-226	pCi/g	0.700	0.963	1.050	1.050	1.040	1.010	1.050	0.906	1.220	1.050	0.906
Radium -228	pCi/g	1.300	1.480	1.340	1.450	1.280	1.830	1.160	1.440	1.460	1.280	1.210
Combined Radioactivity	pCi/g	2.000	2.443	2.390	2.500	2.320	2.840	2.210	2.346	2.680	2.330	2.116

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

APPENDIX A

LABORATORY ANALYTICAL REPORTS

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

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

Friday June 03, 2011

Report Number: L517393
Samples Received: 05/24/11
Client Project:

Description: Coronado Pond 2

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 R Richards

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.

Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

ESC
LAB SCIENCES
YOUR LAB OF CHOICE

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

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

June 03,2011

Date Received : May 24, 2011
Description : Coronado Pond 2

ESC Sample # : L517393-01

Site ID : CORONADO POND 2

Sample ID : A

Project # :

Collected By :
Collection Date : 05/23/11 12:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	69.	11.	mg/kg	9056	05/25/11	1
Fluoride	17.	1.1	mg/kg	9056	05/25/11	1
Nitrate	BDL	1.1	mg/kg	9056	05/25/11	1
Sulfate	190	57.	mg/kg	9056	05/25/11	1
Cyanide	BDL	0.28	mg/kg	9012B	06/02/11	1
pH	8.3		su	9045D	05/27/11	1
Total Solids	88.		%	2540G	06/01/11	1
Mercury	BDL	0.023	mg/kg	7471	05/26/11	1
Arsenic	1.9	1.1	mg/kg	6010B	05/26/11	1
Barium	160	0.28	mg/kg	6010B	05/26/11	1
Cadmium	BDL	0.28	mg/kg	6010B	05/26/11	1
Chromium	10.	0.57	mg/kg	6010B	05/26/11	1
Copper	10.	1.1	mg/kg	6010B	05/26/11	1
Iron	13000	5.7	mg/kg	6010B	05/26/11	1
Lead	9.3	0.28	mg/kg	6010B	05/26/11	1
Manganese	140	0.57	mg/kg	6010B	05/26/11	1
Selenium	4.6	1.1	mg/kg	6010B	05/26/11	1
Silver	BDL	0.57	mg/kg	6010B	05/26/11	1
Zinc	34.	1.7	mg/kg	6010B	05/26/11	1
Benzene	BDL	0.0028	mg/kg	8021B	05/25/11	5
Toluene	BDL	0.028	mg/kg	8021B	05/25/11	5
Ethylbenzene	BDL	0.0028	mg/kg	8021B	05/25/11	5
Total Xylene	BDL	0.0085	mg/kg	8021B	05/25/11	5
Surrogate Recovery(%)						
a,a,a-Trifluorotoluene(PID)	99.0		% Rec.	8021B	05/25/11	5

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

The reported analytical results relate only to the sample submitted
Reported: 06/03/11 14:07 Printed: 06/03/11 14:30
L517393-01 (PH) - 8.3@21.0c

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

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

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

June 03,2011

ESC Sample # : L517393-02

Date Received : May 24, 2011
Description : Coronado Pond 2

Site ID : CORONADO POND 2

Sample ID : B

Project # :

Collected By :
Collection Date : 05/23/11 12:06

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	68.	11.	mg/kg	9056	05/25/11	1
Fluoride	16.	1.1	mg/kg	9056	05/25/11	1
Nitrate	1.6	1.1	mg/kg	9056	05/25/11	1
Sulfate	360	57.	mg/kg	9056	05/25/11	1
Cyanide	BDL	0.29	mg/kg	9012B	05/26/11	1
pH	8.2		su	9045D	05/27/11	1
Total Solids	87.		%	2540G	06/01/11	1
Mercury	BDL	0.023	mg/kg	7471	05/25/11	1
Arsenic	1.6	1.1	mg/kg	6010B	05/25/11	1
Barium	640	0.29	mg/kg	6010B	05/25/11	1
Cadmium	BDL	0.29	mg/kg	6010B	05/25/11	1
Chromium	11.	0.57	mg/kg	6010B	05/25/11	1
Copper	10.	1.1	mg/kg	6010B	05/25/11	1
Iron	16000	5.7	mg/kg	6010B	05/25/11	1
Lead	10.	0.29	mg/kg	6010B	05/25/11	1
Manganese	250	0.57	mg/kg	6010B	05/25/11	1
Selenium	BDL	1.1	mg/kg	6010B	05/25/11	1
Silver	0.64	0.57	mg/kg	6010B	05/25/11	1
Zinc	50.	1.7	mg/kg	6010B	05/25/11	1
Benzene	BDL	0.0029	mg/kg	8021B	05/26/11	5
Toluene	BDL	0.029	mg/kg	8021B	05/26/11	5
Ethylbenzene	BDL	0.0029	mg/kg	8021B	05/26/11	5
Total Xylene	BDL	0.0086	mg/kg	8021B	05/26/11	5
Surrogate Recovery(%)						
a,a,a-Trifluorotoluene(PID)	104.		% Rec.	8021B	05/26/11	5

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

The reported analytical results relate only to the sample submitted
Reported: 06/03/11 14:07 Printed: 06/03/11 14:30
L517393-02 (PH) - 8.20@1.0c

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REPORT OF ANALYSIS

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

June 03,2011

ESC Sample # : L517393-03

Date Received : May 24, 2011
Description : Coronado Pond 2

Site ID : CORONADO POND 2

Sample ID : C

Project # :

Collected By :
Collection Date : 05/23/11 12:12

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	120	11.	mg/kg	9056	05/25/11	1
Fluoride	17.	1.1	mg/kg	9056	05/25/11	1
Nitrate	1.8	1.1	mg/kg	9056	05/25/11	1
Sulfate	190	57.	mg/kg	9056	05/25/11	1
Cyanide	BDL	0.28	mg/kg	9012B	05/26/11	1
pH	9.3		su	9045D	05/27/11	1
Total Solids	88.		%	2540G	06/01/11	1
Mercury	BDL	0.023	mg/kg	7471	05/26/11	1
Arsenic	BDL	1.1	mg/kg	6010B	05/25/11	1
Barium	220	0.28	mg/kg	6010B	05/25/11	1
Cadmium	BDL	0.28	mg/kg	6010B	05/25/11	1
Chromium	10.	0.57	mg/kg	6010B	05/25/11	1
Copper	13.	1.1	mg/kg	6010B	05/25/11	1
Iron	16000	5.7	mg/kg	6010B	05/25/11	1
Lead	9.5	0.28	mg/kg	6010B	05/25/11	1
Manganese	200	0.57	mg/kg	6010B	05/25/11	1
Selenium	1.6	1.1	mg/kg	6010B	05/25/11	1
Silver	BDL	0.57	mg/kg	6010B	05/25/11	1
Zinc	47.	1.7	mg/kg	6010B	05/25/11	1
Benzene	BDL	0.0028	mg/kg	8021B	05/26/11	5
Toluene	BDL	0.028	mg/kg	8021B	05/26/11	5
Ethylbenzene	BDL	0.0028	mg/kg	8021B	05/26/11	5
Total Xylene	BDL	0.0085	mg/kg	8021B	05/26/11	5
Surrogate Recovery(%)						
a,a,a-Trifluorotoluene(PID)	105.		% Rec.	8021B	05/26/11	5

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

The reported analytical results relate only to the sample submitted
Reported: 06/03/11 14:07 Printed: 06/03/11 14:30
L517393-03 (PH) - 9.3@21.3c

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REPORT OF ANALYSIS

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

June 03,2011

Date Received : May 24, 2011
Description : Coronado Pond 2

ESC Sample # : L517393-04

Site ID : CORONADO POND 2

Sample ID : D

Project # :

Collected By :
Collection Date: : 05/23/11 12:17

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	68.	11.	mg/kg	9056	05/25/11	1
Fluoride	12.	1.1	mg/kg	9056	05/25/11	1
Nitrate	BDL	1.1	mg/kg	9056	05/25/11	1
Sulfate	110	57.	mg/kg	9056	05/25/11	1
Cyanide	BDL	0.28	mg/kg	9012B	05/26/11	1
pH	8.7		su	9045D	05/27/11	1
Total Solids	88.		%	2540G	06/01/11	1
Mercury	BDL	0.023	mg/kg	7471	05/26/11	1
Arsenic	BDL	1.1	mg/kg	6010B	05/25/11	1
Barium	220	0.28	mg/kg	6010B	05/25/11	1
Cadmium	BDL	0.28	mg/kg	6010B	05/25/11	1
Chromium	11.	0.57	mg/kg	6010B	05/25/11	1
Copper	10.	1.1	mg/kg	6010B	05/25/11	1
Iron	18000	5.7	mg/kg	6010B	05/25/11	1
Lead	10.	0.28	mg/kg	6010B	05/25/11	1
Manganese	190	0.57	mg/kg	6010B	05/25/11	1
Selenium	1.8	1.1	mg/kg	6010B	05/25/11	1
Silver	0.80	0.57	mg/kg	6010B	05/25/11	1
Zinc	47.	1.7	mg/kg	6010B	05/25/11	1
Benzene	BDL	0.0028	mg/kg	8021B	05/26/11	5
Toluene	BDL	0.028	mg/kg	8021B	05/26/11	5
Ethylbenzene	BDL	0.0028	mg/kg	8021B	05/26/11	5
Total Xylene	BDL	0.0086	mg/kg	8021B	05/26/11	5
Surrogate Recovery(%)						
a,a,a-Trifluorotoluene(PID)	106.		% Rec.	8021B	05/26/11	5

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

The reported analytical results relate only to the sample submitted
Reported: 06/03/11 14:07 Printed: 06/03/11 14:30
L517393-04 (PH) - 8.7@21.1c

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REPORT OF ANALYSIS

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

June 03, 2011

ESC Sample # : L517393-05

Date Received : May 24, 2011
Description : Coronado Pond 2

Site ID : CORONADO POND 2

Sample ID : F

Project # :

Collected By :
Collection Date : 05/23/11 12:22

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	150	11.	mg/kg	9056	05/25/11	1
Fluoride	6.2	1.1	mg/kg	9056	05/25/11	1
Nitrate	5.6	1.1	mg/kg	9056	05/25/11	1
Sulfate	BDL	57.	mg/kg	9056	05/25/11	1
Cyanide	BDL	0.29	mg/kg	9012B	05/26/11	1
pH	8.7		su	9045D	05/27/11	1
Total Solids	87.		%	2540G	06/01/11	1
Mercury	BDL	0.023	mg/kg	7471	05/26/11	1
Arsenic	3.3	1.1	mg/kg	6010B	05/25/11	1
Barium	250	0.29	mg/kg	6010B	05/25/11	1
Cadmium	BDL	0.29	mg/kg	6010B	05/25/11	1
Chromium	13.	0.57	mg/kg	6010B	05/25/11	1
Copper	8.9	1.1	mg/kg	6010B	05/25/11	1
Iron	15000	5.7	mg/kg	6010B	05/25/11	1
Lead	12.	0.29	mg/kg	6010B	05/25/11	1
Manganese	370	0.57	mg/kg	6010B	05/25/11	1
Selenium	BDL	1.1	mg/kg	6010B	05/25/11	1
Silver	0.63	0.57	mg/kg	6010B	05/25/11	1
Zinc	41.	1.7	mg/kg	6010B	05/25/11	1
Benzene	BDL	0.0029	mg/kg	8021B	05/26/11	5
Toluene	BDL	0.029	mg/kg	8021B	05/26/11	5
Ethylbenzene	BDL	0.0029	mg/kg	8021B	05/26/11	5
Total Xylene	BDL	0.0086	mg/kg	8021B	05/26/11	5
Surrogate Recovery(%)						
a,a,a-Trifluorotoluene(PID)	105.		% Rec.	8021B	05/26/11	5

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

The reported analytical results relate only to the sample submitted.
Reported: 06/03/11 14:07 Printed: 06/03/11 14:30
L517393-05 (PH) - 8.7@21.0c

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REPORT OF ANALYSIS

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

June 03, 2011

Date Received : May 24, 2011
Description : Coronado Pond 2

ESC Sample # : L517393-06

Sample ID : G

Site ID : CORONADO POND 2

Project # :

Collected By :
Collection Date : 05/23/11 12:27

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	620	12.	mg/kg	9056	05/25/11	1
Fluoride	14.	1.2	mg/kg	9056	05/25/11	1
Nitrate	7.7	1.2	mg/kg	9056	05/25/11	1
Sulfate	560	58.	mg/kg	9056	05/25/11	1
Cyanide	BDL	0.29	mg/kg	9012B	05/26/11	1
pH	9.3		su	9045D	05/27/11	1
Total Solids	87.		%	2540G	06/01/11	1
Mercury	BDL	0.023	mg/kg	7471	05/26/11	1
Arsenic	1.4	1.2	mg/kg	6010B	05/25/11	1
Barium	300	0.29	mg/kg	6010B	05/25/11	1
Cadmium	BDL	0.29	mg/kg	6010B	05/25/11	1
Chromium	13.	0.58	mg/kg	6010B	05/25/11	1
Copper	11.	1.2	mg/kg	6010B	05/25/11	1
Iron	18000	5.8	mg/kg	6010B	05/25/11	1
Lead	11.	0.29	mg/kg	6010B	05/25/11	1
Manganese	230	0.58	mg/kg	6010B	05/25/11	1
Selenium	1.2	1.2	mg/kg	6010B	05/25/11	1
Silver	0.60	0.58	mg/kg	6010B	05/25/11	1
Zinc	53.	1.7	mg/kg	6010B	05/25/11	1
Benzene	BDL	0.0029	mg/kg	8021B	05/25/11	5
Toluene	BDL	0.029	mg/kg	8021B	05/25/11	5
Ethylbenzene	BDL	0.0029	mg/kg	8021B	05/25/11	5
Total Xylene	BDL	0.0086	mg/kg	8021B	05/25/11	5
Surrogate Recovery(%)						
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021B	05/25/11	5

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

The reported analytical results relate only to the sample submitted
Reported: 06/03/11 14:07 Printed: 06/03/11 14:30
L517393-06 (PH) - 9.3@21.0c

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REPORT OF ANALYSIS

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

June 03, 2011

ESC Sample # : LS17393-07

Date Received : May 24, 2011
Description : Coronado Pond 2

Site ID : CORONADO POND 2

Sample ID : H

Project # :

Collected By :
Collection Date : 05/23/11 12:39

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	560	11.	mg/kg	9056	05/25/11	1
Fluoride	26.	1.1	mg/kg	9056	05/25/11	1
Nitrate	3.7	1.1	mg/kg	9056	05/25/11	1
Sulfate	400	57.	mg/kg	9056	05/25/11	1
Cyanide	BDL	0.28	mg/kg	9012B	05/26/11	1
pH	10.		su	9045D	05/27/11	1
Total Solids	88.		%	2540G	06/01/11	1
Mercury	BDL	0.023	mg/kg	7471	05/26/11	1
Arsenic	BDL	1.1	mg/kg	6010B	05/26/11	1
Barium	1000	0.28	mg/kg	6010B	05/26/11	1
Cadmium	BDL	0.28	mg/kg	6010B	05/26/11	1
Chromium	11.	0.57	mg/kg	6010B	05/26/11	1
Copper	12.	1.1	mg/kg	6010B	05/26/11	1
Iron	17000	5.7	mg/kg	6010B	05/26/11	1
Lead	10.	0.28	mg/kg	6010B	05/26/11	1
Manganese	170	0.57	mg/kg	6010B	05/26/11	1
Selenium	BDL	1.1	mg/kg	6010B	05/26/11	1
Silver	0.72	0.57	mg/kg	6010B	05/26/11	1
Zinc	50.	1.7	mg/kg	6010B	05/26/11	1
Benzene	BDL	0.0028	mg/kg	8021B	05/25/11	5
Toluene	BDL	0.028	mg/kg	8021B	05/25/11	5
Ethylbenzene	BDL	0.0028	mg/kg	8021B	05/25/11	5
Total Xylene	BDL	0.0085	mg/kg	8021B	05/25/11	5
Surrogate Recovery(%)						
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021B	05/25/11	5

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

The reported analytical results relate only to the sample submitted
Reported: 06/03/11 14:07 Printed: 06/03/11 14:30
LS17393-07 (PH) - 10.3@20.7C

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REPORT OF ANALYSIS

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

June 03,2011

ESC Sample # : L517393-08

Date Received : May 24, 2011
Description : Coronado Pond 2

Site ID : CORONADO POND 2

Sample ID : I

Project # :

Collected By :
Collection Date : 05/23/11 12:43

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	370	12.	mg/kg	9056	05/25/11	1
Fluoride	28.	1.2	mg/kg	9056	05/25/11	1
Nitrate	11.	1.2	mg/kg	9056	05/25/11	1
Sulfate	490	58.	mg/kg	9056	05/25/11	1
Cyanide	BDL	0.29	mg/kg	9012B	05/26/11	1
pH	8.7		su	9045D	05/27/11	1
Total Solids	87.		%	2540G	06/01/11	1
Mercury	BDL	0.023	mg/kg	7471	05/26/11	1
Arsenic	1.2	1.2	mg/kg	6010B	05/26/11	1
Barium	270	0.29	mg/kg	6010B	05/26/11	1
Cadmium	BDL	0.29	mg/kg	6010B	05/26/11	1
Chromium	10.	0.58	mg/kg	6010B	05/26/11	1
Copper	12.	1.2	mg/kg	6010B	05/26/11	1
Iron	16000	5.8	mg/kg	6010B	05/26/11	1
Lead	9.8	0.29	mg/kg	6010B	05/26/11	1
Manganese	170	0.58	mg/kg	6010B	05/26/11	1
Selenium	BDL	1.2	mg/kg	6010B	05/26/11	1
Silver	BDL	0.58	mg/kg	6010B	05/26/11	1
Zinc	52.	1.7	mg/kg	6010B	05/26/11	1
Benzene	BDL	0.0029	mg/kg	8021B	05/25/11	5
Toluene	BDL	0.029	mg/kg	8021B	05/25/11	5
Ethylbenzene	BDL	0.0029	mg/kg	8021B	05/25/11	5
Total Xylene	BDL	0.0087	mg/kg	8021B	05/25/11	5
Surrogate Recovery(%)						
a,a,a-Trifluorotoluene(PID)	106.		% Rec.	8021B	05/25/11	5

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

The reported analytical results relate only to the sample submitted
Reported: 06/03/11 14:07 Printed: 06/03/11 14:30
L517393-08 (PH) - 8.7@20.9c

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REPORT OF ANALYSIS

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

June 03, 2011

ESC Sample # : L517393-09

Date Received : May 24, 2011
Description : Coronado Pond 2

Site ID : CORONADO POND 2

Sample ID : J

Project # :

Collected By :
Collection Date : 05/23/11 12:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	680	12.	mg/kg	9056	05/25/11	1
Fluoride	17.	1.2	mg/kg	9056	05/25/11	1
Nitrate	7.9	1.2	mg/kg	9056	05/25/11	1
Sulfate	500	58.	mg/kg	9056	05/25/11	1
Cyanide	BDL	0.29	mg/kg	9012B	05/26/11	1
pH	9.6		su	9045D	05/27/11	1
Total Solids	86.		%	2540G	06/01/11	1
Mercury	BDL	0.023	mg/kg	7471	05/26/11	1
Arsenic	BDL	1.2	mg/kg	6010B	05/26/11	1
Barium	470	0.29	mg/kg	6010B	05/26/11	1
Cadmium	BDL	0.29	mg/kg	6010B	05/26/11	1
Chromium	12.	0.58	mg/kg	6010B	05/26/11	1
Copper	11.	1.2	mg/kg	6010B	05/26/11	1
Iron	18000	5.8	mg/kg	6010B	05/26/11	1
Lead	10.	0.29	mg/kg	6010B	05/26/11	1
Manganese	190	0.58	mg/kg	6010B	05/26/11	1
Selenium	BDL	1.2	mg/kg	6010B	05/26/11	1
Silver	0.64	0.58	mg/kg	6010B	05/26/11	1
Zinc	51.	1.8	mg/kg	6010B	05/26/11	1
Benzene	BDL	0.0029	mg/kg	8021B	05/25/11	5
Toluene	BDL	0.029	mg/kg	8021B	05/25/11	5
Ethylbenzene	BDL	0.0029	mg/kg	8021B	05/25/11	5
Total Xylene	BDL	0.0088	mg/kg	8021B	05/25/11	5
Surrogate Recovery(%)						
a,a,a-Trifluorotoluene(PID)	106.		% Rec.	8021B	05/25/11	5

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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L517393-09 (PH) - 9.6@20.6c

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REPORT OF ANALYSIS

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

June 03, 2011

Date Received : May 24, 2011
Description : Coronado Pond 2

ESC Sample # : L517393-10

Sample ID : BACKGROUND

Site ID : CORONADO POND 2

Project # :

Collected By :
Collection Date : 05/23/11 12:35

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	58.	11.	mg/kg	9056	05/25/11	1
Fluoride	3.3	1.1	mg/kg	9056	05/25/11	1
Nitrate	6.4	1.1	mg/kg	9056	05/25/11	1
Sulfate	BDL	56.	mg/kg	9056	05/25/11	1
Cyanide	BDL	0.28	mg/kg	9012B	05/26/11	1
pH	8.1		su	9045D	05/27/11	1
Total Solids	89.		%	2540G	06/01/11	1
Mercury	BDL	0.022	mg/kg	7471	05/26/11	1
Arsenic	2.1	1.1	mg/kg	6010B	05/26/11	1
Barium	780	0.28	mg/kg	6010B	05/26/11	1
Cadmium	BDL	0.28	mg/kg	6010B	05/26/11	1
Chromium	9.7	0.56	mg/kg	6010B	05/26/11	1
Copper	9.1	1.1	mg/kg	6010B	05/26/11	1
Iron	14000	5.6	mg/kg	6010B	05/26/11	1
Lead	11.	0.28	mg/kg	6010B	05/26/11	1
Manganese	380	0.56	mg/kg	6010B	05/26/11	1
Selenium	BDL	1.1	mg/kg	6010B	05/26/11	1
Silver	BDL	0.56	mg/kg	6010B	05/26/11	1
Zinc	38.	1.7	mg/kg	6010B	05/26/11	1
Benzene	BDL	0.0028	mg/kg	8021B	05/25/11	5
Toluene	BDL	0.028	mg/kg	8021B	05/25/11	5
Ethylbenzene	BDL	0.0028	mg/kg	8021B	05/25/11	5
Total Xylene	BDL	0.0084	mg/kg	8021B	05/25/11	5
Surrogate Recovery(%)						
a,a,a-Trifluorotoluene(PID)	107.		% Rec.	8021B	05/25/11	5

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

The reported analytical results relate only to the sample submitted
Reported: 06/03/11 14:07 Printed: 06/03/11 14:30
L517393-10 (PH) - 8.1@20.8c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L517393-05	WG537164	SAMP	Barium	R1700509	V
	WG537164	SAMP	Iron	R1700509	V
	WG537164	SAMP	Manganese	R1700509	V
	WG537164	SAMP	Selenium	R1700509	P1

Attachment R
Explanation of QC Qualifier Codes

Qualifier	Meaning
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	(ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries.

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 Difference.

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.

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James McDaniel
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Quality Assurance Report
Level II

LS17393

June 03, 2011

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Benzene	< .0005	mg/kg			WG537267	05/25/11 09:33
Ethylbenzene	< .0005	mg/kg			WG537267	05/25/11 09:33
Toluene	< .005	mg/kg			WG537267	05/25/11 09:33
Total Xylene	< .0015	mg/kg			WG537267	05/25/11 09:33
a,a,a-Trifluorotoluene(PID)		% Rec.	107.2	54-144	WG537267	05/25/11 09:33
Arsenic	< 1	mg/kg			WG537164	05/25/11 11:05
Barium	< .25	mg/kg			WG537164	05/25/11 11:05
Cadmium	< .25	mg/kg			WG537164	05/25/11 11:05
Chromium	< .5	mg/kg			WG537164	05/25/11 11:05
Copper	< 1	mg/kg			WG537164	05/25/11 11:05
Iron	< 5	mg/kg			WG537164	05/25/11 11:05
Lead	< .25	mg/kg			WG537164	05/25/11 11:05
Manganese	< .5	mg/kg			WG537164	05/25/11 11:05
Selenium	< 1	mg/kg			WG537164	05/25/11 11:05
Silver	< .5	mg/kg			WG537164	05/25/11 11:05
Zinc	< 1.5	mg/kg			WG537164	05/25/11 11:05
Chloride	< 10	mg/kg			WG537268	05/25/11 10:44
Fluoride	< 1	mg/kg			WG537268	05/25/11 10:44
Nitrate	< 1	mg/kg			WG537268	05/25/11 10:44
Sulfate	< 50	mg/kg			WG537268	05/25/11 10:44
Mercury	< .02	mg/kg			WG537172	05/25/11 14:35
Benzene	< .0005	mg/kg			WG537316	05/25/11 17:28
Ethylbenzene	< .0005	mg/kg			WG537316	05/25/11 17:28
Toluene	< .005	mg/kg			WG537316	05/25/11 17:28
Total Xylene	< .0015	mg/kg			WG537316	05/25/11 17:28
a,a,a-Trifluorotoluene(PID)		% Rec.	102.6	54-144	WG537316	05/25/11 17:28
Benzene	< .0005	mg/kg			WG537173	05/26/11 01:58
Ethylbenzene	< .0005	mg/kg			WG537173	05/26/11 01:58
Toluene	< .005	mg/kg			WG537173	05/26/11 01:58
Total Xylene	< .0015	mg/kg			WG537173	05/26/11 01:58
a,a,a-Trifluorotoluene(PID)		% Rec.	104.4	54-144	WG537173	05/26/11 01:58
Arsenic	< 1	mg/kg			WG537166	05/26/11 12:16
Barium	< .25	mg/kg			WG537166	05/26/11 12:16
Cadmium	< .25	mg/kg			WG537166	05/26/11 12:16
Chromium	< .5	mg/kg			WG537166	05/26/11 12:16
Copper	< 1	mg/kg			WG537166	05/26/11 12:16
Iron	< 5	mg/kg			WG537166	05/26/11 12:16
Lead	< .25	mg/kg			WG537166	05/26/11 12:16
Manganese	< .5	mg/kg			WG537166	05/26/11 12:16
Selenium	< 1	mg/kg			WG537166	05/26/11 12:16
Silver	< .5	mg/kg			WG537166	05/26/11 12:16
Zinc	< 1.5	mg/kg			WG537166	05/26/11 12:16
Mercury	< .02	mg/kg			WG537237	05/26/11 10:49

* Performance of this Analyte is outside of established criteria.
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Quality Assurance Report
Level II

LS17393

June 03, 2011

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Cyanide	< .25	mg/kg			WG537202	05/26/11 13:59
Arsenic	< 1	mg/kg			WG537330	05/26/11 17:21
Barium	< .25	mg/kg			WG537330	05/26/11 17:21
Cadmium	< .25	mg/kg			WG537330	05/26/11 17:21
Chromium	< .5	mg/kg			WG537330	05/26/11 17:21
Copper	< 1	mg/kg			WG537330	05/26/11 17:21
Iron	< 5	mg/kg			WG537330	05/26/11 17:21
Lead	< .25	mg/kg			WG537330	05/26/11 17:21
Manganese	< .5	mg/kg			WG537330	05/26/11 17:21
Selenium	< 1	mg/kg			WG537330	05/26/11 17:21
Silver	< .5	mg/kg			WG537330	05/26/11 17:21
Zinc	< 1.5	mg/kg			WG537330	05/26/11 17:21
pH	3.70	su			WG537706	05/27/11 11:15
Total Solids	< .1	%			WG538160	06/01/11 11:20
Total Solids	< .1	%			WG538159	06/01/11 11:36
Cyanide	< .25	mg/kg			WG538237	06/02/11 12:15

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Arsenic	mg/kg	2.80	2.80	1.42	20	LS17393-05	WG537164
Barium	mg/kg	190.	220.	13.1	20	LS17393-05	WG537164
Cadmium	mg/kg	0	0	0	20	LS17393-05	WG537164
Chromium	mg/kg	11.0	11.0	1.80	20	LS17393-05	WG537164
Copper	mg/kg	7.40	7.80	5.26	20	LS17393-05	WG537164
Iron	mg/kg	14000	13000	3.77	20	LS17393-05	WG537164
Lead	mg/kg	9.80	10.0	1.61	20	LS17393-05	WG537164
Manganese	mg/kg	300.	320.	5.79	20	LS17393-05	WG537164
Selenium	mg/kg	2.30	0	NA	20	LS17393-05	WG537164
Silver	mg/kg	0.660	0.550	18.9	20	LS17393-05	WG537164
Zinc	mg/kg	35.0	36.0	2.25	20	LS17393-05	WG537164
Sulfate	mg/kg	0	15.5	NA	20	LS16850-05	WG537268
Mercury	mg/kg	0.0240	0.0200	19.8	20	LS17313-01	WG537172
Arsenic	mg/kg	0.980	1.10	11.8	20	LS17397-04	WG537166
Barium	mg/kg	20.0	23.0	16.5	20	LS17397-04	WG537166
Cadmium	mg/kg	0	0	0	20	LS17397-04	WG537166
Chromium	mg/kg	5.00	5.30	6.03	20	LS17397-04	WG537166
Copper	mg/kg	2.90	3.32	12.5	20	LS17397-04	WG537166
Iron	mg/kg	5100	5610	8.94	20	LS17397-04	WG537166
Lead	mg/kg	2.10	2.30	7.21	20	LS17397-04	WG537166
Manganese	mg/kg	140.	162.	12.5	20	LS17397-04	WG537166
Selenium	mg/kg	1.10	0	NA	20	LS17397-04	WG537166
Silver	mg/kg	0.250	0.320	23.0*	20	LS17397-04	WG537166

* Performance of this Analyte is outside of established criteria.
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Level II

LS17393

June 03, 2011

Analyte	Units	Duplicate Result	Duplicate	RPD	Limit	Ref Samp	Batch
Zinc	mg/kg	11.0	11.7	5.26	20	LS17397-04	WG537166
Mercury	mg/kg	0	0	0	20	LS17393-01	WG537237
Cyanide	mg/kg	0	0	0	20	LS17393-08	WG537202
Cyanide	mg/kg	0	0	0	20	LS17237-03	WG537202
Barium	mg/kg	280.	260.	8.47	20	LS17500-02	WG537330
Cadmium	mg/kg	0.620	0.580	6.57	20	LS17500-02	WG537330
Chromium	mg/kg	19.0	22.0	20.0	20	LS17500-02	WG537330
Copper	mg/kg	24.0	25.0	6.19	20	LS17500-02	WG537330
Iron	mg/kg	13000	12600	3.41	20	LS17500-02	WG537330
Lead	mg/kg	14.0	13.0	6.69	20	LS17500-02	WG537330
Manganese	mg/kg	240.	248.	3.38	20	LS17500-02	WG537330
Selenium	mg/kg	1.70	1.70	2.38	20	LS17500-02	WG537330
Silver	mg/kg	0	0	0	20	LS17500-02	WG537330
Zinc	mg/kg	43.0	43.0	0.700	20	LS17500-02	WG537330
Arsenic	mg/kg	15.0	14.0	5.56	20	LS17500-02	WG537330
pH	su	7.30	7.30	0	1	LS17347-02	WG537706
pH	su	8.30	8.30	0	1	LS17500-02	WG537706
Total Solids	%	63.0	65.1	2.56	5	LS17414-02	WG538160
Total Solids	%	87.0	87.0	0.0934	5	LS17313-22	WG538159
Cyanide	mg/kg	0	0	0	20	LS17496-01	WG538237

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Benzene	mg/kg	.05	0.0501	100.	76-113	WG537267
Ethylbenzene	mg/kg	.05	0.0501	100.	78-115	WG537267
Toluene	mg/kg	.05	0.0487	97.4	76-114	WG537267
Total Xylene	mg/kg	.15	0.149	99.1	81-118	WG537267
a,a,a-Trifluorotoluene(PID)				105.3	54-144	WG537267
Arsenic	mg/kg	193	170.	88.5	78.6-120.8	WG537164
Barium	mg/kg	420	384.	91.4	78.8-121.4	WG537164
Cadmium	mg/kg	70.1	62.6	89.3	78.5-121.5	WG537164
Chromium	mg/kg	168	159.	94.6	80.4-120.2	WG537164
Copper	mg/kg	122	120.	98.4	81.6-119.7	WG537164
Iron	mg/kg	18100	16400	90.6	80.7-149.7	WG537164
Lead	mg/kg	113	103.	91.2	77.3-122.1	WG537164
Manganese	mg/kg	441	423.	95.9	78.9-120.9	WG537164
Selenium	mg/kg	176	161.	91.5	75.6-125.0	WG537164
Silver	mg/kg	115	111.	96.5	66-133.9	WG537164
Zinc	mg/kg	437	402.	92.0	78.5-121.7	WG537164
Chloride	mg/kg	200	204.	102.	65-115	WG537268

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James McDaniel
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Aztec, NM 87410

Quality Assurance Report
Level II

L517393

June 03, 2011

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Fluoride	mg/kg	20	20.1	101.	85-115	WG537268
Nitrate	mg/kg	20	20.0	100.	85-115	WG537268
Sulfate	mg/kg	200	206.	103.	85-115	WG537268
Mercury	mg/kg	8.77	7.72	88.0	71.6-127.7	WG537172
Benzene	mg/kg	.05	0.0528	106.	76-113	WG537316
Ethylbenzene	mg/kg	.05	0.0534	107.	78-115	WG537316
Toluene	mg/kg	.05	0.0529	106.	76-114	WG537316
Total Xylene	mg/kg	.15	0.161	107.	81-118	WG537316
a,a,a-Trifluorotoluene(PID)				102.6	54-144	WG537316
Benzene	mg/kg	.05	0.0488	97.6	76-113	WG537173
Ethylbenzene	mg/kg	.05	0.0463	92.6	78-115	WG537173
Toluene	mg/kg	.05	0.0475	95.1	76-114	WG537173
Total Xylene	mg/kg	.15	0.144	96.3	81-118	WG537173
a,a,a-Trifluorotoluene(PID)				105.4	54-144	WG537173
Arsenic	mg/kg	192	188.	97.9	78.6-120.8	WG537166
Barium	mg/kg	420	411.	97.9	78.8-121.4	WG537166
Cadmium	mg/kg	70.1	68.4	97.6	78.5-121.5	WG537166
Chromium	mg/kg	168	169.	101.	80.4-120.2	WG537166
Copper	mg/kg	122	123.	101.	81.6-119.7	WG537166
Iron	mg/kg	18100	18500	102.	50.7-149.7	WG537166
Lead	mg/kg	113	114.	101.	77.3-122.1	WG537166
Manganese	mg/kg	441	450.	102.	78.9-120.9	WG537166
Selenium	mg/kg	176	176.	100.	75.6-125.0	WG537166
Silver	mg/kg	115	115.	100.	66-133.9	WG537166
Zinc	mg/kg	437	433.	99.1	78.5-121.7	WG537166
Mercury	mg/kg	8.77	9.78	112.	71.6-127.7	WG537237
Cyanide	mg/kg	28.1	25.8	91.8	50-150	WG537202
Arsenic	mg/kg	192	176.	91.7	78.6-120.8	WG537330
Barium	mg/kg	420	395.	94.0	78.8-121.4	WG537330
Cadmium	mg/kg	70.1	63.8	91.0	78.5-121.5	WG537330
Chromium	mg/kg	168	162.	96.4	80.4-120.2	WG537330
Copper	mg/kg	122	120.	98.4	81.6-119.7	WG537330
Iron	mg/kg	18100	16600	91.7	50.7-149.7	WG537330
Lead	mg/kg	113	105.	92.9	77.3-122.1	WG537330
Manganese	mg/kg	441	410.	93.0	78.9-120.9	WG537330
Selenium	mg/kg	176	170.	96.6	75.6-125.0	WG537330
Silver	mg/kg	115	107.	93.0	66-133.9	WG537330
Zinc	mg/kg	437	397.	90.8	78.5-121.7	WG537330
pH	su	6.3	6.20	98.4	97.98-102.02	WG537706
Total Solids	%	50	50.0	100.	85-155	WG538160

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Level II

L517393

June 03, 2011

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Total Solids	%	50	50.0	100.	85-155	WG538159
Cyanide	mg/kg	28.1	26.6	94.7	50-150	WG538237

Laboratory Control Sample Duplicate

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
Benzene	mg/kg	0.0494	0.0501	99.0	76-113	1.47	20	WG537267
Ethylbenzene	mg/kg	0.0494	0.0501	99.0	78-115	1.39	20	WG537267
Toluene	mg/kg	0.0479	0.0487	96.0	76-114	1.59	20	WG537267
Total Xylene	mg/kg	0.147	0.149	98.0	81-118	1.43	20	WG537267
a,a,a-Trifluorotoluene(PID)				105.9	54-144			WG537267
Chloride	mg/kg	198.	204.	99.0	85-115	2.99	20	WG537268
Fluoride	mg/kg	19.7	20.1	98.0	85-115	2.01	20	WG537268
Nitrate	mg/kg	19.6	20.0	98.0	85-115	2.02	20	WG537268
Sulfate	mg/kg	202.	206.	101.	85-115	1.96	20	WG537268
Benzene	mg/kg	0.0487	0.0528	97.0	76-113	8.24	20	WG537316
Ethylbenzene	mg/kg	0.0503	0.0534	101.	78-115	5.89	20	WG537316
Toluene	mg/kg	0.0490	0.0529	98.0	76-114	7.70	20	WG537316
Total Xylene	mg/kg	0.152	0.161	102.	81-118	5.58	20	WG537316
a,a,a-Trifluorotoluene(PID)				104.5	54-144			WG537316
Benzene	mg/kg	0.0494	0.0488	99.0	76-113	1.32	20	WG537173
Ethylbenzene	mg/kg	0.0469	0.0463	94.0	78-115	1.41	20	WG537173
Toluene	mg/kg	0.0476	0.0475	95.0	76-114	0.0800	20	WG537173
Total Xylene	mg/kg	0.147	0.144	98.0	81-118	1.51	20	WG537173
a,a,a-Trifluorotoluene(PID)				105.9	54-144			WG537173
Cyanide	mg/kg	28.6	25.8	102.	50-150	10.3	20	WG537202
pH	su	6.20	6.20	98.0	97.98-102.02	0	20	WG537706
Cyanide	mg/kg	25.5	26.6	91.0	50-150	4.22	20	WG538237

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Benzene	mg/kg	0.261	0	.05	104.	32-137	L517288-01	WG537267
Ethylbenzene	mg/kg	0.235	0	.05	94.1	10-150	L517288-01	WG537267
Toluene	mg/kg	0.236	0	.05	94.5	20-142	L517288-01	WG537267
Total Xylene	mg/kg	0.700	0	.15	93.3	16-141	L517288-01	WG537267
a,a,a-Trifluorotoluene(PID)					103.3	54-144		WG537267
Arsenic	mg/kg	49.9	2.80	50	94.2	75-125	L517393-05	WG537164
Barium	mg/kg	257.	220.	50	74.0*	75-125	L517393-05	WG537164
Cadmium	mg/kg	48.1	0	50	96.2	75-125	L517393-05	WG537164
Chromium	mg/kg	60.6	11.0	50	99.2	75-125	L517393-05	WG537164
Copper	mg/kg	59.6	7.80	50	104.	75-125	L517393-05	WG537164

* Performance of this Analyte is outside of established criteria.
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Company Name/Address

XTO Energy, Inc,
382 County Road 3100
Aztec, NM 87410

Alternate Billing: XTORNM031810S

Report to: James McDaniel

E-mail to: james_mcdaniel@xtoenergy.com

Project Description: CORONADO POND #2 — City/State Collected:

PHONE: 505-333-3701 — Client Project No. — — Lab Project #

FAX:

Collected by: — Site/Facility ID#: CORONADO POND #2 — P.O.#

Collected by(signature): — Rush? (Lab MUST be Notified) — Date Results Needed — No of Cntrs

Packed on Ice N___ Y___

_____Next Day.....100%
_____Two Day.....50%
_____Three Day.....25%

Email?___No_X__Yes
FAX?___No___Yes

Analysis/Container/Preservative: BTEX (8021) | As, Ba, Cd, Cr, CN-, F, Pb, Hg, Se | Ag, Cl, Cu, Fe, Mn, Zn | SO_4, NO_3 as N | TDS, pH

Chain of Custody
Page 2 of 2

Prepared by:

ENVIRONMENTAL
Science corp
12065 Lebanon Road
Mt. Juliet TN 37122
Phone (615)758-5858
Phone (800) 767-5859
FAX (615)758-5859

CoCode (lab use only)
XTORNM
Template/Prelogin

Shipped Via: Fed Ex

Sample ID	Comp/Grab	Matrix	Depth	Date	Time	No of Cntrs	Remarks/contaminant	Sample # (lab only)
J	Comp	S/S		5/23/11	12:30	2		L517393-09
Background	Grab	↓		↓	12:35	2		-10

Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT- Other_____ pH_____ Temp_____

Remarks: "ONLY 1 COC Per Site!!" Flow_____ Other_____

Relinquisher by:(Signature)	Date:	Time:	Received by:(Signature)	Samples returned via: FedEx_X_ UPS__Other__	Condition: (lab use only)
	5/23/11	1500			
Relinquisher by:(Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.5°C / Bottles Received: 32-40z	
Relinquisher by:(Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 5/24/11 / Time: 0900	pH Checked: / NCF: YES

ESC
L·A·B S·C·I·E·N·C·E·S

NON-CONFORMANCE FORM

Login No.: L517393

Date: 05-24-11

Evaluated by: J. Fuller

Client: XTORNM

D

Non-Conformance (check applicable items)

- ☐ Parameter(s) past holding time
- ☐ Improper temperature
- ☐ Improper container type
- ☐ Improper preservation
- ☐ Container lid not intact
- ☑ Login Clarification Needed
- ☐ Chain of custody is incomplete
- ☐ Chain of Custody is missing (see below)
- ☐ Broken container(s) (See below)
- ☐ Broken container: sufficient sample volume remains for analysis requested (See below)

If no COC: Received by_____
Date:_____ Time:_____
Temp:____ Cont. Rec_____ pH:____
☐ Fedex ☐ UPS ☐ SWA ☐ Other_____
Tracking #_____

- ☐ Insufficient packing material around container
- ☐ Insufficient packing material inside cooler
- ☐ Improper handling by carrier (FedEx / UPS / Courier
- ☐ Sample was frozen

Comments: Client asked for TDS. Samples are soil.

Login Instructions: TSR Initials: JM

Client informed by call / (email) / fax / voice mail date: 5/24 time: 13:45

Client contact: Notified client TDS is water only

Summary of Remarks For Samples Printed
05/24/11 at 16:43:21

TSR Signing Reports: 288
R5 - Desired TAT

drywt

Sample: L516379-01 Account: XTORNM Received: 05/17/11 09:00 Due Date: 05/24/11 00:00 RPT Date: 05/24/11 16:42

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Est. 1970

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

Quality Assurance Report
Level II

LS16379

May 24, 2011

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Chloride	< .10	mg/kg			WG536120	05/18/11 10:38
Fluoride	< 1	mg/kg			WG536120	05/18/11 10:38
Nitrate	< 1.	mg/kg			WG536120	05/18/11 10:38
Sulfate	< 50.	mg/kg			WG536120	05/18/11 10:38
Mercury	< .02	mg/kg			WG536128	05/18/11 14:32
Benzene	< .0005	mg/kg			WG536259	05/18/11 19:15
Ethylbenzene	< .0005	mg/kg			WG536259	05/18/11 19:15
Toluene	< .005	mg/kg			WG536259	05/18/11 19:15
Total Xylene	< .0015	mg/kg			WG536259	05/18/11 19:15
a,a,a-Trifluorotoluene(PID)		% Rec.	94.62	54-144	WG536259	05/18/11 19:15
Arsenic	< 1	mg/kg			WG536127	05/19/11 12:12
Barium	< .25	mg/kg			WG536127	05/19/11 12:12
Cadmium	< .25	mg/kg			WG536127	05/19/11 12:12
Chromium	< .5	mg/kg			WG536127	05/19/11 12:12
Copper	< 1	mg/kg			WG536127	05/19/11 12:12
Iron	< 5	mg/kg			WG536127	05/19/11 12:12
Lead	< .25	mg/kg			WG536127	05/19/11 12:12
Manganese	< .5	mg/kg			WG536127	05/19/11 12:12
Zinc	< 1.5	mg/kg			WG536127	05/19/11 12:12
Selenium	< 1	mg/kg			WG536127	05/19/11 01:34
pH	4.30	su			WG535341	05/20/11 08:17
Silver	< .5	mg/kg			WG536512	05/20/11 14:48
Total Solids	< .1	%			WG536848	05/23/11 08:53
Cyanide	< .25	mg/kg			WG536757	05/24/11 10:35

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Sulfate	mg/kg	0	6.50	NA	20	LS16426-01	WG536120
Sulfate	mg/kg	0	5.30	NA	20	LS16426-05	WG536120
Mercury	mg/kg	0.0420	0.0600	35.5*	20	LS16382-13	WG536128
Arsenic	mg/kg	5.50	6.30	13.9	20	LS16426-03	WG536127
Barium	mg/kg	130.	160.	17.7	20	LS16426-03	WG536127
Cadmium	mg/kg	0.750	0.790	4.93	20	LS16426-03	WG536127
Chromium	mg/kg	16.0	18.0	8.70	20	LS16426-03	WG536127
Copper	mg/kg	12.0	0	NA	20	LS16426-03	WG536127
Iron	mg/kg	15000	16000	5.79	20	LS16426-03	WG536127
Lead	mg/kg	23.0	25.0	8.77	20	LS16426-03	WG536127
Manganese	mg/kg	380.	580.	42.9*	20	LS16426-03	WG536127
Selenium	mg/kg	12.0	13.0	8.00	20	LS16426-03	WG536127
Zinc	mg/kg	100.	0	NA	20	LS16426-03	WG536127

* 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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James McDaniel
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Aztec, NM 87410

Quality Assurance Report
Level II

L516379

May 24, 2011

Analyte	Units	Duplicate Result	Duplicate	RPD	Limit	Ref Samp	Batch
pH	su	7.10	7.10	0	1	L516328-08	WG536341
pH	su	9.20	9.20	0	1	L516495-38	WG536341
Silver	mg/kg	0	0	0	20	L516837-01	WG536512
Total Solids	%	72.0	73.8	2.60	5	L516971-07	WG536848
Cyanide	mg/kg	0.670	0.660	1.20	20	L516441-01	WG536757
Cyanide	mg/kg	2.90	0.780	115.*	20	L516355-06	WG536757

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Chloride	mg/kg	200	202.	101.	85-115	WG536120
Fluoride	mg/kg	20	19.7	98.5	85-115	WG536120
Nitrate	mg/kg	20	19.9	99.5	85-115	WG536120
Sulfate	mg/kg	200	202.	101.	85-115	WG536120
Mercury	mg/kg	8.77	7.92	90.3	71.6-127.7	WG536128
Benzene	mg/kg	.05	0.0408	81.5	76-113	WG536259
Ethylbenzene	mg/kg	.05	0.0437	87.4	78-115	WG536259
Toluene	mg/kg	.05	0.0427	85.5	76-114	WG536259
Total Xylene	mg/kg	.15	0.130	86.9	81-118	WG536259
a,a,a-Trifluorotoluene(PID)				92.75	54-144	WG536259
Arsenic	mg/kg	192	162.	84.4	78.6-120.8	WG536127
Barium	mg/kg	420	366.	87.1	78.8-121.4	WG536127
Cadmium	mg/kg	70.1	61.8	88.2	78.5-121.5	WG536127
Chromium	mg/kg	168	149.	88.7	80.4-120.2	WG536127
Copper	mg/kg	122	114.	93.4	81.6-119.7	WG536127
Iron	mg/kg	18100	15600	86.2	50.7-149.7	WG536127
Lead	mg/kg	113	98.1	86.8	77.3-122.1	WG536127
Manganese	mg/kg	441	384.	87.1	78.9-120.9	WG536127
Selenium	mg/kg	176	164.	93.2	75.6-125.0	WG536127
Zinc	mg/kg	437	382.	87.4	78.5-121.7	WG536127
pH	su	5.3	6.30	100.	97.98-102.02	WG536341
Silver	mg/kg	115	100.	87.0	66-133.9	WG536512
Total Solids	%	50	50.0	100.	85-155	WG536848
Cyanide	mg/kg	28.1	21.4	76.2	50-150	WG536757

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
Chloride	mg/kg	207.	202.	104.	85-115	2.44	20	WG536120

* Performance of this Analyte is outside of established criteria.
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Quality Assurance Report
Level II

L516379

May 24, 2011

Laboratory Control Sample Duplicate

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
Fluoride	mg/kg	20.2	19.7	101.	85-115	2.51	20	WG536120
Nitrate	mg/kg	20.3	19.9	102.	85-115	1.99	20	WG536120
Sulfate	mg/kg	208.	202.	104.	85-115	2.93	20	WG536120
Benzene	mg/kg	0.0465	0.0408	93.0	76-113	13.2	20	WG536259
Ethylbenzene	mg/kg	0.0509	0.0437	102.	78-115	15.2	20	WG536259
Toluene	mg/kg	0.0483	0.0427	97.0	76-114	12.3	20	WG536259
Total Xylene	mg/kg	0.152	0.130	102.	81-118	15.6	20	WG536259
a,a,a-Trifluorotoluene(PID)				89.28	54-144			WG536259
pH	su	6.30	6.30	100.	97.98-102.02	0	20	WG536341
Cyanide	mg/kg	27.7	21.4	98.0	50-150	25.7*	20	WG536757

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Sulfate	mg/kg	532.	4.00	500	106.	80-120	LS16426-01	WG536120
Mercury	mg/kg	0.340	0.0600	.25	112.	70-130	LS16382-13	WG536128
Benzene	mg/kg	0.180	0	.05	72.0	32-137	LS16328-08	WG536259
Ethylbenzene	mg/kg	0.185	0	.05	74.0	10-150	LS16328-08	WG536259
Toluene	mg/kg	0.187	0	.05	74.7	20-142	LS16328-08	WG536259
Total Xylene	mg/kg	0.561	0	.15	74.8	16-141	LS16328-08	WG536259
a,a,a-Trifluorotoluene(PID)					87.43	54-144		WG536259
Arsenic	mg/kg	47.3	6.30	50	82.0	75-125	LS16426-03	WG536127
Barium	mg/kg	203.	160.	50	86.0	75-125	LS16426-03	WG536127
Cadmium	mg/kg	41.4	0.790	50	81.2	75-125	LS16426-03	WG536127
Chromium	mg/kg	60.2	18.0	50	84.4	75-125	LS16426-03	WG536127
Copper	mg/kg	59.9	0	50	120.	75-125	LS16426-03	WG536127
Iron	mg/kg	15700	16000	50	0*	75-125	LS16426-03	WG536127
Lead	mg/kg	66.7	25.0	50	83.4	75-125	LS16426-03	WG536127
Manganese	mg/kg	637.	580.	50	114.	75-125	LS16426-03	WG536127
Selenium	mg/kg	52.8	13.0	50	79.6	75-125	LS16426-03	WG536127
Zinc	mg/kg	143.	0	50	286.*	75-125	LS16426-03	WG536127
Silver	mg/kg	47.8	0	50	95.6	75-125	LS16837-01	WG536512
Cyanide	mg/kg	3.24	0	3.33	97.3	80-120	LS16355-13	WG536757

Matrix Spike Duplicate

Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Sulfate	mg/kg	529.	532.	105.	80-120	0.556	20	LS16426-01	WG536120
Mercury	mg/kg	0.359	0.340	120.	70-130	5.44	20	LS16382-13	WG536128

* 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
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Aztec, NM 87410

Quality Assurance Report
Level II

LS16379

May 24, 2011

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Benzene	mg/kg	0.165	0.180	74.1	32-137	2.91	39	LS16328-08	WG536259
Ethylbenzene	mg/kg	0.190	0.185	75.6	10-150	2.38	44	LS16328-08	WG536259
Toluene	mg/kg	0.189	0.187	75.6	20-142	1.15	42	LS16328-08	WG536259
Total Xylene	mg/kg	0.572	0.561	76.2	16-141	1.95	46	LS16328-08	WG536259
a,a,a-Trifluorotoluene(PID)				89.45	54-144				WG536259
Arsenic	mg/kg	47.1	47.3	81.6	75-125	0.424	20	LS16426-03	WG536127
Barium	mg/kg	197.	203.	74.0*	75-125	3.00	20	LS16426-03	WG536127
Cadmium	mg/kg	42.1	41.4	82.6	75-125	1.68	20	LS16426-03	WG536127
Chromium	mg/kg	62.3	60.2	88.6	75-125	3.43	20	LS16426-03	WG536127
Copper	mg/kg	59.6	59.9	119.	75-125	0.502	20	LS16426-03	WG536127
Iron	mg/kg	16600	15700	1200*	75-125	5.57	20	LS16426-03	WG536127
Lead	mg/kg	64.1	66.7	78.2	75-125	3.98	20	LS16426-03	WG536127
Manganese	mg/kg	421.	637.	0*	75-125	40.8*	20	LS16426-03	WG536127
Selenium	mg/kg	54.4	52.8	82.8	75-125	2.99	20	LS16426-03	WG536127
Zinc	mg/kg	126.	143.	252.*	75-125	12.6	20	LS16426-03	WG536127
Silver	mg/kg	44.3	47.8	88.6	75-125	7.60	20	LS16837-01	WG536512
Cyanide	mg/kg	3.44	3.24	103.	80-120	5.99	20	LS16355-13	WG536757

Batch number /Run number / Sample number cross reference

WG536120: R1692610: LS16379-01
WG536128: R1692711: LS16379-01
WG536259: R1692929: LS16379-01
WG536127: R1693171: LS16379-01
WG536341: R1694309: LS16379-01
WG536512: R1695110: LS16379-01
WG536848: R1697115: LS16379-01
WG536757: R1698973: LS16379-01

* • 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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James McDaniel
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Aztec, NM 87410

Quality Assurance Report
Level II

LS16379

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

XTO Energy, Inc.

382 County Road 3100
Aztec, NM 87410

Alternate Billing

XTORNM031810S

Report to: James McDaniel

E-mail to: james_mcdaniel@xtoenergy.com

Analysis/Container/Preservative

Chain of Custody
Page 1 of 1

B039

Prepared by:

ENVIRONMENTAL
Science corp

12065 Lebanon Road

Mt. Juliet TN 37122

Phone (615)758-5858
Phone (800) 767-5859
FAX (615)758-5859

Project Description: Coronado Pond #2

City/State Collected: San Juan City NM

PHONE: 505-333-3701

FAX:

Client Project No. –

Lab Project #

Collected by: Brooke Herb

Site/Facility ID# Coronado Pond #2

P.O.#

Collected by(signature):

Packed on Ice N___ Y_X

Rush? (Lab MUST be Notified)
_____Next Day.....100%
_____Two Day.....50%
_____Three Day.....25%

Date Results Needed

Email?___No_X__Yes
FAX?___No___Yes

CoCode (lab use only)
XTORNM
Template/Prelogin

Shipped Via: Fed Ex

Sample ID	Comp/Grab	Matrix	Depth	Date	Time	No of Cntrs	BTEX (8021)	As, Ba, Cd, Cr, CN-, F, Pb, Hg, Se	Ag, Cl, Cu, Fe, Mn, Zn	SO4, NO3 as N	TDS, pH	Remarks/contaminant	Sample # (lab only)
E	Comp	S/S		5/16/11	13:30	2	✓	✓	✓	✓	✓		1516379-01

Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT- Other_____

pH_____ Temp_____

Flow_____ Other_____

Remarks: "ONLY 1 COC Per Site!!"

Relinquisher by:(Signature)	Date:	Time:	Received by:(Signature)	Samples returned via: FedEx_X_ UPS__Other__	Condition (lab use only)
Brooke Herb	5/16/11	14:30		Temp: 3.4 / Bottles Received: 2-40z	OK
Relinquisher by:(Signature)	Date:	Time:	Received by: (Signature)		
Relinquisher by:(Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 5/17/11 / Time: 0900	pH Checked: NCF:

ESC
L·A·B S·C·I·E·N·C·E·S

NON-CONFORMANCE FORM

Login No.: 1516379

Date: 05-17-11

Evaluated by: J. Fuller

Client: XTORNM

Non-Conformance (check applicable items)

- ☐ Parameter(s) past holding time
- ☐ Improper temperature
- ☐ Improper container type
- ☐ Improper preservation
- ☐ Container lid not intact
- ☑ Login Clarification Needed
- ☐ Chain of custody is incomplete
- ☐ Chain of Custody is missing (see below)
- ☐ Broken container(s) (See below)
- ☐ Broken container: sufficient sample volume remains for analysis requested (See below)

If no COC: Received by_____
Date:_____ Time:_____
Temp:____ Cont. Rec_____ pH:_____
☐ Fedex ☐ UPS ☐SWA ☐ Other_____
Tracking #_____

- ☐ Insufficient packing material around container
- ☐ Insufficient packing material inside cooler
- ☐ Improper handling by carrier (FedEx / UPS / Courier
- ☐ Sample was frozen

Comments: We do not run TDS for soils.

Login Instructions: TSR Initials: DK

Client informed by call / (email) / fax / voice mail date: 5/17 time: 14:00 JTM

Client contact: informed client

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Monday, June 27, 2011

James McDaniel
XTO Energy
382 County Road 3100
Aztec, NM 87410

TEL: (505) 787-0519
FAX (505) 333-3280

RE: Coronado Pond #2

Order No.: 1105938

Dear James McDaniel:

Hall Environmental Analysis Laboratory, Inc. received 10 sample(s) on 5/24/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Jun-11*
Analytical Report

CLIENT:	XTO Energy	**Client Sample ID:**	A
Lab Order:	1105938	**Collection Date:**	5/23/2011 12:00:00 PM
Project:	Coronado Pond #2	**Date Received:**	5/24/2011
Lab ID:	1105938-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: ELS
Uranium	ND	26		mg/Kg	5	5/31/2011 11:02:36 AM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	6/1/2011

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Jun-11*
Analytical Report

CLIENT:	XTO Energy	**Client Sample ID:**	B
Lab Order:	1105938	**Collection Date:**	5/23/2011 12:06:00 PM
Project:	Coronado Pond #2	**Date Received:**	5/24/2011
Lab ID:	1105938-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: ELS
Uranium	ND	25		mg/Kg	5	5/31/2011 11:04:39 AM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	6/1/2011

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Jun-11*
Analytical Report

CLIENT:	XTO Energy	**Client Sample ID:**	C
Lab Order:	1105938	**Collection Date:**	5/23/2011 12:12:00 PM
Project:	Coronado Pond #2	**Date Received:**	5/24/2011
Lab ID:	1105938-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Uranium	ND	25		mg/Kg	5	5/31/2011 11:06:35 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	6/1/2011

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 27-Jun-11

Analytical Report

CLIENT:	XTO Energy	**Client Sample ID:**	D
Lab Order:	1105938	**Collection Date:**	5/23/2011 12:17:00 PM
Project:	Coronado Pond #2	**Date Received:**	5/24/2011
Lab ID:	1105938-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: ELS
Uranium	ND	25		mg/Kg	5	5/31/2011 11:08:26 AM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	6/1/2011

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

CLIENT:	XTO Energy	**Client Sample ID:**	F
Lab Order:	1105938	**Collection Date:**	5/23/2011 12:22:00 PM
Project:	Coronado Pond #2	**Date Received:**	5/24/2011
Lab ID:	1105938-05	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: ELS
Uranium	ND	25		mg/Kg	5	5/31/2011 11:10:20 AM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	43	20		mg/Kg	1	6/1/2011

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 27-Jun-11

Analytical Report

CLIENT:	XTO Energy	**Client Sample ID:**	G
Lab Order:	1105938	**Collection Date:**	5/23/2011 12:27:00 PM
Project:	Coronado Pond #2	**Date Received:**	5/24/2011
Lab ID:	1105938-06	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: ELS
Uranium	ND	25		mg/Kg	5	5/31/2011 11:12:14 AM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	6/1/2011

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Jun-11*

Analytical Report

CLIENT:	XTO Energy	**Client Sample ID:**	H
Lab Order:	1105938	**Collection Date:**	5/23/2011 12:39:00 PM
Project:	Coronado Pond #2	**Date Received:**	5/24/2011
Lab ID:	1105938-07	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: ELS
Uranium	ND	25		mg/Kg	5	5/31/2011 11:21:16 AM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	6/1/2011

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

CLIENT:	XTO Energy	**Client Sample ID:**	I
Lab Order:	1105938	**Collection Date:**	5/23/2011 12:43:00 PM
Project:	Coronado Pond #2	**Date Received:**	5/24/2011
Lab ID:	1105938-08	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Uranium	ND	50		mg/Kg	10	5/31/2011 11:23:12 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	6/1/2011

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Jun-11*

Analytical Report

CLIENT:	XTO Energy	**Client Sample ID:**	J
Lab Order:	1105938	**Collection Date:**	5/23/2011 12:30:00 PM
Project:	Coronado Pond #2	**Date Received:**	5/24/2011
Lab ID:	1105938-09	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Uranium	ND	25		mg/Kg	5	5/31/2011 11:28:41 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	6/1/2011

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Jun-11*
Analytical Report

CLIENT:	XTO Energy	**Client Sample ID:**	Background
Lab Order:	1105938	**Collection Date:**	5/23/2011 12:35:00 PM
Project:	Coronado Pond #2	**Date Received:**	5/24/2011
Lab ID:	1105938-10	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						**Analyst: ELS**
Uranium	ND	25		mg/Kg	5	6/31/2011 11:28:35 AM
EPA METHOD 418.1: TPH						**Analyst: JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	6/1/2011

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 1105938
Pace Project No.: 3047433

Sample: 1105938-01B Lab ID: 3047433001 Collected: 05/23/11 12:00 Received: 05/27/11 10:30 Matrix: Solid
PWS: Site ID: Sample Type:
Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	0.963 ± 0.189 (0.179)	pCi/g	06/22/11 09:52	13982-63-3	
Radium-228	EPA 901.1m	1.48 ± 0.293 (0.268)	pCi/g	06/22/11 09:52	15262-20-1	

Sample: 1105938-02B Lab ID: 3047433002 Collected: 05/23/11 12:06 Received: 05/27/11 10:30 Matrix: Solid
PWS: Site ID: Sample Type:
Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	1.05 ± 0.195 (0.184)	pCi/g	06/22/11 10:57	13982-63-3	
Radium-228	EPA 901.1m	1.34 ± 0.265 (0.281)	pCi/g	06/22/11 10:57	15262-20-1	

Sample: 1105938-03B Lab ID: 3047433003 Collected: 05/23/11 12:12 Received: 05/27/11 10:30 Matrix: Solid
PWS: Site ID: Sample Type:
Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	1.05 ± 0.206 (0.185)	pCi/g	06/22/11 12:54	13982-63-3	
Radium-228	EPA 901.1m	1.45 ± 0.321 (0.238)	pCi/g	06/22/11 12:54	15262-20-1	

Sample: 1105938-04B Lab ID: 3047433004 Collected: 05/23/11 12:17 Received: 05/27/11 10:30 Matrix: Solid
PWS: Site ID: Sample Type:
Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	1.04 ± 0.179 (0.163)	pCi/g	06/22/11 14:00	13982-63-3	
Radium-228	EPA 901.1m	1.28 ± 0.302 (0.262)	pCi/g	06/22/11 14:00	15262-20-1	

Sample: 1105938-05B Lab ID: 3047433005 Collected: 05/23/11 12:22 Received: 05/27/11 10:30 Matrix: Solid
PWS: Site ID: Sample Type:
Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	1.05 ± 0.201 (0.166)	pCi/g	06/22/11 15:03	13982-63-3	
Radium-228	EPA 901.1m	1.16 ± 0.273 (0.264)	pCi/g	06/22/11 15:03	15262-20-1	

Sample: 1105938-06B Lab ID: 3047433006 Collected: 05/23/11 12:27 Received: 05/27/11 10:30 Matrix: Solid
PWS: Site ID: Sample Type:
Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	0.906 ± 0.191 (0.181)	pCi/g	06/22/11 16:30	13982-63-3	
Radium-228	EPA 901.1m	1.44 ± 0.351 (0.291)	pCi/g	06/22/11 16:30	15262-20-1	

Date: 06/24/2011 02:10 PM

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 1105938
Pace Project No.: 3047433

Sample: 1105938-07B Lab ID: 3047433007 Collected: 05/23/11 12:39 Received: 05/27/11 10:30 Matrix: Solid
PWS: Site ID: Sample Type:
Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	1.22 ± 0.219 (0.172)	pCi/g	06/23/11 08:57	13982-63-3	
Radium-228	EPA 901.1m	1.46 ± 0.308 (0.258)	pCi/g	06/23/11 08:57	15262-20-1	

Sample: 1105938-08B Lab ID: 3047433008 Collected: 05/23/11 12:43 Received: 05/27/11 10:30 Matrix: Solid
PWS: Site ID: Sample Type:
Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	1.05 ± 0.195 (0.178)	pCi/g	06/23/11 09:59	13982-63-3	
Radium-228	EPA 901.1m	1.28 ± 0.276 (0.314)	pCi/g	06/23/11 09:59	15262-20-1	

Sample: 1105938-09B Lab ID: 3047433009 Collected: 05/23/11 12:30 Received: 05/27/11 10:30 Matrix: Solid
PWS: Site ID: Sample Type:
Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	0.906 ± 0.161 (0.170)	pCi/g	06/23/11 11:03	13982-63-3	
Radium-228	EPA 901.1m	1.21 ± 0.289 (0.287)	pCi/g	06/23/11 11:03	15262-20-1	

Sample: 1105938-10B Lab ID: 3047433010 Collected: 05/23/11 12:35 Received: 05/27/11 10:30 Matrix: Solid
PWS: Site ID: Sample Type:
Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	0.700 ± 0.168 (0.179)	pCi/g	06/23/11 12:56	13982-63-3	
Radium-228	EPA 901.1m	1.30 ± 0.316 (0.244)	pCi/g	06/23/11 12:56	15262-20-1	

Date: 06/24/2011 02:10 PM

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 1105938
Pace Project No.: 3047433

QC Batch: RADC/8531 Analysis Method: EPA 901.1m
QC Batch Method: EPA 901.1m Analysis Description: 901.1 Gamma Spec
Associated Lab Samples: 3047433001, 3047433002, 3047433003, 3047433004, 3047433005, 3047433006, 3047433007, 3047433008, 3047433009, 3047433010

METHOD BLANK: 304756 Matrix: Solid
Associated Lab Samples: 3047433001, 3047433002, 3047433003, 3047433004, 3047433005, 3047433006, 3047433007, 3047433008, 3047433009, 3047433010

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-226	-0.027 ± 0.0280 (0.203)	pCi/g	06/23/11 13:58	
Radium-228	-0.078 ± 0.428 (0.295)	pCi/g	06/23/11 13:58	

Date: 06/24/2011 02:10 PM

QA/QC SUMMARY REPORT

Client: XTO Energy
Project: Coronado Pond #2 **Work Order:** 1105938

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 418.1: TPH											
Sample ID: MB-27004		*MBLK*				**Batch ID: 27004**		**Analysis Date:**			**6/1/2011**
Petroleum Hydrocarbons, TR	ND	mg/Kg	20								
Sample ID: LCS-27004		*LCS*				**Batch ID: 27004**		**Analysis Date:**			**6/1/2011**
Petroleum Hydrocarbons, TR	102.0	mg/Kg	20	100	0	102	81.4	118			
Sample ID: LCSD-27004		*LCSD*				**Batch ID: 27004**		**Analysis Date:**			**6/1/2011**
Petroleum Hydrocarbons, TR	104.6	mg/Kg	20	100	0	105	81.4	118	2.54	8.58	
Method: EPA Method 6010B: Soil Metals											
Sample ID: MB-26981		*MBLK*				**Batch ID: 26981**		**Analysis Date:**			**5/31/2011 8:26:26 AM**
Uranium	ND	mg/Kg	5.0								
Sample ID: LCS-26981		*LCS*				**Batch ID: 26981**		**Analysis Date:**			**5/31/2011 8:28:22 AM**
Uranium	25.48	mg/Kg	5.0	25	0	102	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name XTO ENERGY | Date Received: 5/24/2011

Work Order Number 1105938 | Received by: AMG

Checklist completed by: Signature 5/24/11 Date | Sample ID labels checked by: Initials

Matrix: | Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		Number of preserved bottles checked for pH:
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	_____ <2 >12 unless noted below.
Container/Temp Blank temperature?		<6° C Acceptable If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

_____

_____

_____

_____

Corrective Action _____

_____

_____

Chain-of-Custody Record

Client: James McDaniel
XTO Energy
Mailing Address: 382 CR 3100
Aztec, NM
Phone #: 505-757-0519
email or Fax#:
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:
☑ Standard ☐ Rush _____
Project Name: Coronado Pond #2
Project #:
Project Manager: James McDaniel
Sampler: Brooke Herb
On Ice: ☐ Yes ☐ No
Sample Temperature:

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request (8260 - 228)

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1105958	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Uranium	Radiochivity (combined Radium 226)			Air Bubbles (Y or N)
5/23/11	12:00	Soil	A	4oz/2	NONE	1				✓								✓	✓			
	12:06		B			2				✓								✓	✓			
	12:12		C			3				✓								✓	✓			
	12:17		D			4				✓								✓	✓			
	12:22		F			5				✓								✓	✓			
	12:27		G			6				✓								✓	✓			
	12:39		H			7				✓								✓	✓			
	12:43		I			8				✓								✓	✓			
	12:30		J			9				✓								✓	✓			
↓	12:35	↓	Background	↓	↓	10				✓								✓	✓			

Date	Time	Relinquished by:	Received by:	Date	Time
5/23/11	1523		Christine Walters	5/23/11	1523
5/23/11	11:47	Christine Walters		5/24	11913

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Thursday, June 16, 2011

James McDaniel
XTO Energy
382 County Road 3100
Aztec, NM 87410

TEL: (505) 787-0519
FAX (505) 333-3280

RE: Coronado Pond #2

Order No.: 1105696

Dear James McDaniel:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 5/17/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682

4901 Hawkins NE ◘ Suite D ◘ Albuquerque, NM 87109
505.345.3975 ◘ Fax 505.345.4107
www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc.

Date: *16-Jun-11*

Analytical Report

CLIENT:	XTO Energy	**Client Sample ID:** E	
Lab Order:	1105696	**Collection Date:**	5/16/2011 1:30:00 PM
Project:	Coronado Pond #2	**Date Received:**	5/17/2011
Lab ID:	1105696-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: ELS
Uranium	ND	25		mg/Kg	5	5/31/2011 12:49:26 PM
EPA METHOD 418.1: TPH						Analyst: LRW
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	5/20/2011

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 1105698
Pace Project No.: 3047004

Sample: 1105698-01B Lab ID: 3047004001 Collected: 05/16/11 13:30 Received: 05/20/11 10:00 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	1.01 ± 0.246 (0.209)	pCi/g	06/16/11 08:18	13982-63-3	
Radium-228	EPA 901.1m	1.83 ± 0.427 (0.184)	pCi/g	06/16/11 08:18	15262-20-1	

Date: 06/16/2011 02:33 PM

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 1105898
Pace Project No.: 3047004

QC Batch: RADC/8465 Analysis Method: EPA 901.1m
QC Batch Method: EPA 901.1m Analysis Description: 901.1 Gamma Spec
Associated Lab Samples: 3047004001

METHOD BLANK: 302759 Matrix: Solid
Associated Lab Samples: 3047004001

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-226	0.0710 ± 0.140 (0.244)	pCi/g	06/16/11 08:50	
Radium-228	-0.041 ± 1.06 (0.407)	pCi/g	06/16/11 08:50	

Date: 06/16/2011 02:33 PM

REPORT OF LABORATORY ANALYSIS

QA/QC SUMMARY REPORT

Client: XTO Energy
Project: Coronado Pond #2 **Work Order:** 1105696

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 418.1: TPH											
Sample ID: MB-26897		*MBLK*				**Batch ID: 26897**		**Analysis Date:**			**5/20/2011**
Petroleum Hydrocarbons, TR	ND	mg/Kg	20								
Sample ID: LCS-26897		*LCS*				**Batch ID: 26897**		**Analysis Date:**			**5/20/2011**
Petroleum Hydrocarbons, TR	98.86	mg/Kg	20	100	0	98.9	81.4	118			
Sample ID: LCSD-26897		*LCSD*				**Batch ID: 26897**		**Analysis Date:**			**5/20/2011**
Petroleum Hydrocarbons, TR	98.20	mg/Kg	20	100	0	98.2	81.4	118	1.37	8.58	
Method: EPA Method 6010B: Soil Metals											
Sample ID: MB-26997		*MBLK*				**Batch ID: 26997**		**Analysis Date:**			**5/31/2011 11:52:18 AM**
Uranium	ND	mg/Kg	5.0								
Sample ID: LCS-26997		*LCS*				**Batch ID: 26997**		**Analysis Date:**			**5/31/2011 11:54:15 AM**
Uranium	25.49	mg/Kg	5.0	25	0.6564	99.3	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name XTO ENERGY | Date Received: 5/17/2011

Work Order Number 1105696 | Received by: MMG

Checklist completed by: Michelle Garcia 5/17/11 (Signature / Date) | Sample ID labels checked by: AK (Initials)

Matrix: | Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		Number of preserved bottles checked for pH:
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	*<2 >12 unless noted below.*
Container/Temp Blank temperature?	1.0°	*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: James McDaniel
XTO Energy
Mailing Address: 382 CR 3100
Aztec NM
Phone #: 505.757.0519
email or Fax#:
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush
Project Name: Coronado Pond #2
Project #:
Project Manager: James McDaniel
Sampler: Brooke Herb
On Ice: ☒ Yes ☐ No
Sample Temperature: 1.0°

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1105696	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Uranium	Radioactivity (combine Radium 226+228)		Air Bubbles (Y or N)
5/16/11	1330	Soil	E	4oz (2)	none	-1				✓								✓	✓		

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time
5/16/11	1422	Brooke Herb	Christine Walker	5/16/11	1422
5/16/11	1612	Christine Walker	Michelle Garcia	5/17/11	10:00

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.