

## Bratcher, Mike, EMNRD

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**From:** Michael Stubblefield [mstubblefield@talonlpe.com]  
**Sent:** Tuesday, July 24, 2012 2:25 PM  
**To:** Gregston, Terry G  
**Cc:** Bratcher, Mike, EMNRD; Lewis, Merle; lynn.smith@dvn.com; Schultz, Brian  
**Subject:** RE: Strawberry 7 Federal 2: work plan: conditions of approval--spill map attachment

Dear Ms. Gregston,

Talon/LPE has received the BLM approval for the work plan submitted on the correction of the Devon Energy Corp. Strawberry 7 Federal No.2 release. A separate work plan is currently being constructed for the reclamation on the drilling pit located at the Strawberry 7 Federal No.2. This work plan will address the drilling pit material which was utilized to patch the lease road. Notification will be provided to the BLM prior to starting the project.

**Mike Stubblefield**  
Project Manager  
Talon/LPE  
408 West Texas Avenue  
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Better Business Bureau Torch Award for Marketplace Ethics: 2010 Winner, 2009 Finalist  
Staples Foundation for Learning Hall of Fame Recipient: 2010  
ICIC and Business Week- Top 100: 2010, 2009, 2008, 2007, 2006  
Inc. 500/5000: 2011, 2010, 2009, 2008, 2007

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**From:** Gregston, Terry G [mailto:tgregsto@blm.gov]  
**Sent:** Tuesday, July 24, 2012 12:16 PM  
**To:** Michael Stubblefield; brian.schultz@dvn.com  
**Cc:** mike.bratcher@state.nm.us  
**Subject:** RE: Strawberry 7 Federal 2: work plan: conditions of approval--spill map attachment

**Terry Gregston**  
Environmental Protection Specialist  
Bureau of Land Management  
620 E. Greene St.  
Carlsbad, NM 88220  
Office (575) 234-5958  
Cell (575) 361-2635  
Fax (575) 234-5927

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**From:** Gregston, Terry G  
**Sent:** Tuesday, July 24, 2012 12:14 PM  
**To:** 'Michael Stubblefield'; 'Brian.Schultz@dvn.com'  
**Cc:** 'mike.bratcher@state.nm.us'  
**Subject:** RE: Strawberry 7 Federal 2: work plan: conditions of approval

Gentlemen,

This notification is in regard to the following location and undesirable event:

Event Number: NU12115TG  
Event Date: 5/11/2012  
Event Name: Strawberry 7 Federal 2  
Legals: T19S/R31E, sec. 7, NWNE

**The submitted cleanup plan for the undesirable event at the above location is approved with the following conditions of approval:**

**Contaminants not specifically addressed by the plan that require mitigation:**

Contaminants observed outside the tank battery berm during the onsite assessment of this event need to be addressed: (See attached spill map for reference.)

1. In the separator area, this constituted a light spray in the pasture area behind the tank. If topsoil or vegetation surrounding the tank battery is still affected by this oily spray, the spray should be washed off using a biodegradable soap and then oil-eating microbes applied to the affected area. More than one treatment may be required.
2. Heavy salting was noted around the load lines. This salted area should be addressed during cleanup work at the battery.

**Reserve Pit Issues:** It should also be noted that the reserve pit on this location was heavily salted and salts from the pit were leaching onto the pad. Some of the reserve pit contents had been used to repair a lease road. The operator has informed the BLM that the reserve pit and the contamination issues created by the use of reserve pit cuttings to repair the access road will be addressed under a separate cleanup plan.

**Notification Stipulations:**

1. **A copy of the cleanup plan and conditions of approval must be given to the contractor or site work personnel and be present on the location during all cleanup operations.**
2. **The authorized officer must be notified at the following phases of cleanup or conditions:**
  - a. Prior to moving equipment on location for cleanup
  - b. When the excavation is nearing completion and a BLM inspection of the excavation or witnessing of sampling is required by the cleanup plan COA's.
  - c. When the cleanup work is nearing completion and to schedule a final onsite prior to removal of equipment.
  - d. Three days before the site is seeded.
  - e. Any time that a variance of the approved plan or conditions of approval is required.
  - f. In the event that you encounter excavation difficulties, unexpected void areas, or archeological artifacts the Authorized Officer must be contacted immediately. An onsite may be required to assess the situation.

3. The authorized officer on this undesirable event case is:

**Terry Gregston**  
**(575) 361-2635**  
**tgregsto@blm.gov**

**Facility Cleanup Stipulations:**

**Unlined facility:**

1. The BLM requires horizontal cleanup of the spill impacted areas in addition to vertical cleanup/mitigation measures. In this case, the location is still a working tank battery location. As such, excavation depths in portions of the spill area in close proximity to standing production equipment may be limited due to safety concerns. In such cases, the cleanup measures will be considered a temporary spill abatement measure that will be further mitigated upon the abandonment of the well/facility location. Appropriate notations to that effect will be entered in the well file.
2. Cleanup will include removal of any contaminated berm materials and/or unsuitable berm materials such as sandy soils, gravels, or cobblestones. Tank battery berms should be built of compactable caliche that is capable of fluid containment.
3. The BLM may wish to inspect the excavation once it reaches cleanup depth/width. Confirmation samples of excavation bottoms, sidewalls and any visibly affected areas outside of the excavation trench will be required; the BLM may witness the sampling. Contact the authorized officer to schedule.
4. Lab analysis of the confirmation sampling must be forwarded to the authorized officer for final approval before backfilling. Based on the sampling results, additional cleanup may be required or the site may be approved for closure.
5. Once final approval of cleanup is given, the excavation can be backfilled with compactable caliche to the level of the original native contour plus enough loft to accommodate the settling and compaction of unconsolidated fill soils.
6. Install secondary containment berms of good quality compactable caliche around existing production equipment and the pad to prevent future spills from being released from the facility or off the location.

**Pad Cleanup Stipulations:**

1. The BLM requires horizontal cleanup of the spill impacted areas in addition to vertical cleanup/mitigation measures.
2. The BLM may wish to inspect the excavation once it reaches cleanup depth/width. Confirmation samples of excavation bottom, sidewalls and any visibly affected areas outside of the excavation trench will be required; the BLM may witness the sampling. Contact the authorized officer to schedule.
3. Lab analysis of the confirmation sampling must be forwarded to the authorized officer for final approval before backfilling. Based on the sampling results, additional cleanup may be required or the site may be approved for closure.
4. Once final approval of cleanup is given, the excavation can be backfilled with clean soil to the level of the original native contour plus enough loft to accommodate the settling and compaction of unconsolidated fill soils.
5. Pad areas should be resurfaced with 6" of clean caliche on top of the backfill material.

**Reserve Pit Impacted Areas:**

1. The reserve pit on this location will be addressed under a separate plan.

**Other Stipulations:**

1. At the time of the final onsite for this location, the production facilities, well pad, access road, and the surrounding pasture areas must be in a condition that will pass a routine inspection.
2. All household trash, debris, disconnected pipe and equipment must be removed from the area and the surrounding pasture and hauled to an authorized landfill. Do not bury cleanup trash, equipment debris, or household garbage in the cleanup excavation.

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**BLM approval of this proposal does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health, or the environment, or if the location fails to reclaim properly. In such an event that location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws/regulations.**

**Terry Gregston**

Environmental Protection Specialist  
Bureau of Land Management  
620 E. Greene St.  
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Reserve\_Pit 0.2458

STRAWBERRY 7 FEDERL COM #002 STRAWBERRY 7 FEDERL COM #002

007

Spill-Oil 0.2578



## Bratcher, Mike, EMNRD

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**From:** Michael Stubblefield <mstubblefield@talonlpe.com>  
**Sent:** Thursday, October 18, 2012 7:18 AM  
**To:** Gregston, Terry G  
**Cc:** Lewis, Merle; Bratcher, Mike, EMNRD  
**Subject:** FW: REVISED STRAWBERRY 7 FED NO 2  
**Attachments:** H202494R TALON.pdf

Dear Ms. Gregston,

Talon/LPE is sending the analytical testing results for the soil samples collected at the Strawberry 7 Federal No.2 release. Please review the analytical test results, Devon Energy Corp. is requesting approval to back fill the excavated area at the tank battery using new soil transported to location. If further information is required please contact me.

**Mike Stubblefield**  
Project Manager  
Talon/LPE  
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Inc. 500/5000: 2011, 2010, 2009, 2008, 2007

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**From:** Celey Keene [<mailto:celey.keene@cardinallabsnm.com>]  
**Sent:** Wednesday, October 17, 2012 4:47 PM  
**To:** Michael Stubblefield; David Adkins; Kimberly M. Wilson  
**Subject:** REVISED STRAWBERRY 7 FED NO 2

This is revised report with the sample id changed for the last two samples. This report will replace the one sent on 10/17/12.

Thank you,

**Celey Keene**  
Lab Director  
Cardinal Laboratories  
101 East Marland  
Hobbs, NM 88240  
T: (575) 393-2326  
F: (575) 393-2476

**e-mail:** [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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October 17, 2012

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: STRAWBERRY 7 FED. NO. 2

Enclosed are the results of analyses for samples received by the laboratory on 10/12/12 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	10/12/2012	Sampling Date:	10/11/2012
Reported:	10/17/2012	Sampling Type:	Soil
Project Name:	STRAWBERRY 7 FED. NO. 2	Sampling Condition:	Cool & Intact
Project Number:	700794.027.01	Sample Received By:	Jodi Henson
Project Location:	SEC.7-T19S-R31E		

**Sample ID: S - 4 (H202494-02)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2012	ND	2.17	108	2.00	5.24		
Toluene*	<0.050	0.050	10/16/2012	ND	1.99	99.4	2.00	4.39		
Ethylbenzene*	<0.050	0.050	10/16/2012	ND	1.96	97.8	2.00	4.26		
Total Xylenes*	<0.150	0.150	10/16/2012	ND	5.74	95.6	6.00	3.82		

Surrogate: 4-Bromofluorobenzene (PIE) 98.8 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>320</b>	16.0	10/16/2012	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/16/2012	ND	181	90.3	200	0.0725		
<b>DRO &gt;C10-C28</b>	<b>15.7</b>	10.0	10/16/2012	ND	175	87.3	200	1.06		

Surrogate: 1-Chlorooctane 80.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 77.6 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	10/12/2012	Sampling Date:	10/11/2012
Reported:	10/17/2012	Sampling Type:	Soil
Project Name:	STRAWBERRY 7 FED. NO. 2	Sampling Condition:	Cool & Intact
Project Number:	700794.027.01	Sample Received By:	Jodi Henson
Project Location:	SEC.7-T19S-R31E		

**Sample ID: S - 6 (H202494-04)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2012	ND	2.17	108	2.00	5.24		
Toluene*	<0.050	0.050	10/16/2012	ND	1.99	99.4	2.00	4.39		
Ethylbenzene*	<0.050	0.050	10/16/2012	ND	1.96	97.8	2.00	4.26		
Total Xylenes*	<0.150	0.150	10/16/2012	ND	5.74	95.6	6.00	3.82		

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	10/16/2012	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/16/2012	ND	180	90.0	200	8.27		
DRO >C10-C28	<10.0	10.0	10/16/2012	ND	179	89.6	200	8.85		

Surrogate: 1-Chlorooctane 88.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.8 % 63.6-154

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	10/12/2012	Sampling Date:	10/11/2012
Reported:	10/17/2012	Sampling Type:	Soil
Project Name:	STRAWBERRY 7 FED. NO. 2	Sampling Condition:	Cool & Intact
Project Number:	700794.027.01	Sample Received By:	Jodi Henson
Project Location:	SEC.7-T19S-R31E		

**Sample ID: S - 7 (H202494-05)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2012	ND	2.17	108	2.00	5.24		
Toluene*	<0.050	0.050	10/16/2012	ND	1.99	99.4	2.00	4.39		
Ethylbenzene*	<0.050	0.050	10/16/2012	ND	1.96	97.8	2.00	4.26		
Total Xylenes*	<0.150	0.150	10/16/2012	ND	5.74	95.6	6.00	3.82		

*Surrogate: 4-Bromofluorobenzene (PIC)*      102 %      89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>32.0</b>	16.0	10/16/2012	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/16/2012	ND	180	90.0	200	8.27		
<b>DRO &gt;C10-C28</b>	<b>62.2</b>	10.0	10/16/2012	ND	179	89.6	200	8.85		

*Surrogate: 1-Chlorooctane*      90.7 %      65.2-140

*Surrogate: 1-Chlorooctadecane*      92.5 %      63.6-154

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	10/12/2012	Sampling Date:	10/11/2012
Reported:	10/17/2012	Sampling Type:	Soil
Project Name:	STRAWBERRY 7 FED. NO. 2	Sampling Condition:	Cool & Intact
Project Number:	700794.027.01	Sample Received By:	Jodi Henson
Project Location:	SEC.7-T19S-R31E		

**Sample ID: S - 8 (H202494-06)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2012	ND	2.17	108	2.00	5.24		
Toluene*	<0.050	0.050	10/16/2012	ND	1.99	99.4	2.00	4.39		
Ethylbenzene*	<0.050	0.050	10/16/2012	ND	1.96	97.8	2.00	4.26		
Total Xylenes*	<0.150	0.150	10/16/2012	ND	5.74	95.6	6.00	3.82		

Surrogate: 4-Bromofluorobenzene (PIE) 99.6 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>144</b>	16.0	10/16/2012	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/16/2012	ND	180	90.0	200	8.27		
<b>DRO &gt;C10-C28</b>	<b>2750</b>	10.0	10/16/2012	ND	179	89.6	200	8.85		

Surrogate: 1-Chlorooctane 83.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 139 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	10/12/2012	Sampling Date:	10/11/2012
Reported:	10/17/2012	Sampling Type:	Soil
Project Name:	STRAWBERRY 7 FED. NO. 2	Sampling Condition:	Cool & Intact
Project Number:	700794.027.01	Sample Received By:	Jodi Henson
Project Location:	SEC.7-T19S-R31E		

**Sample ID: S - 9 (H202494-07)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2012	ND	2.17	108	2.00	5.24	
Toluene*	<0.050	0.050	10/16/2012	ND	1.99	99.4	2.00	4.39	
Ethylbenzene*	<0.050	0.050	10/16/2012	ND	1.96	97.8	2.00	4.26	
Total Xylenes*	<0.150	0.150	10/16/2012	ND	5.74	95.6	6.00	3.82	

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/16/2012	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/16/2012	ND	180	90.0	200	8.27	
DRO >C10-C28	<10.0	10.0	10/16/2012	ND	179	89.6	200	8.85	

Surrogate: 1-Chlorooctane 91.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.5 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	10/12/2012	Sampling Date:	10/11/2012
Reported:	10/17/2012	Sampling Type:	Soil
Project Name:	STRAWBERRY 7 FED. NO. 2	Sampling Condition:	Cool & Intact
Project Number:	700794.027.01	Sample Received By:	Jodi Henson
Project Location:	SEC.7-T19S-R31E		

**Sample ID: S - 10 (H202494-08)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2012	ND	2.17	108	2.00	5.24		
Toluene*	<0.050	0.050	10/16/2012	ND	1.99	99.4	2.00	4.39		
Ethylbenzene*	<0.050	0.050	10/16/2012	ND	1.96	97.8	2.00	4.26		
Total Xylenes*	<0.150	0.150	10/16/2012	ND	5.74	95.6	6.00	3.82		

*Surrogate: 4-Bromofluorobenzene (PIC) 101 % 89.4-126*

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>208</b>	16.0	10/16/2012	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/16/2012	ND	180	90.0	200	8.27		
DRO >C10-C28	<10.0	10.0	10/16/2012	ND	179	89.6	200	8.85		

*Surrogate: 1-Chlorooctane 87.9 % 65.2-140*
*Surrogate: 1-Chlorooctadecane 89.8 % 63.6-154*

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	10/12/2012	Sampling Date:	10/11/2012
Reported:	10/17/2012	Sampling Type:	Soil
Project Name:	STRAWBERRY 7 FED. NO. 2	Sampling Condition:	Cool & Intact
Project Number:	700794.027.01	Sample Received By:	Jodi Henson
Project Location:	SEC.7-T19S-R31E		

**Sample ID: S - 11 (H202494-09)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2012	ND	2.17	108	2.00	5.24		
Toluene*	<0.050	0.050	10/16/2012	ND	1.99	99.4	2.00	4.39		
Ethylbenzene*	<0.050	0.050	10/16/2012	ND	1.96	97.8	2.00	4.26		
Total Xylenes*	<0.150	0.150	10/16/2012	ND	5.74	95.6	6.00	3.82		

*Surrogate: 4-Bromofluorobenzene (PIE) 99.5 % 89.4-126*

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>112</b>	16.0	10/16/2012	ND	416	104	400	3.92		

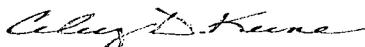
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/16/2012	ND	180	90.0	200	8.27		
DRO >C10-C28	<10.0	10.0	10/16/2012	ND	179	89.6	200	8.85		

*Surrogate: 1-Chlorooctane 87.6 % 65.2-140*
*Surrogate: 1-Chlorooctadecane 88.3 % 63.6-154*

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	10/12/2012	Sampling Date:	10/11/2012
Reported:	10/17/2012	Sampling Type:	Soil
Project Name:	STRAWBERRY 7 FED. NO. 2	Sampling Condition:	Cool & Intact
Project Number:	700794.027.01	Sample Received By:	Jodi Henson
Project Location:	SEC.7-T19S-R31E		

**Sample ID: S - 12 (H202494-10)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2012	ND	2.17	108	2.00	5.24		
Toluene*	<0.050	0.050	10/16/2012	ND	1.99	99.4	2.00	4.39		
Ethylbenzene*	<0.050	0.050	10/16/2012	ND	1.96	97.8	2.00	4.26		
Total Xylenes*	<0.150	0.150	10/16/2012	ND	5.74	95.6	6.00	3.82		

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/16/2012	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/16/2012	ND	180	90.0	200	8.27		
DRO >C10-C28	78.4	10.0	10/16/2012	ND	179	89.6	200	8.85		

Surrogate: 1-Chlorooctane 84.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.7 % 63.6-154

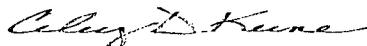
**Sample ID: S-13 0.5 BGS (H202494-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2012	ND	400	100	400	0.00		

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	10/12/2012	Sampling Date:	10/11/2012
Reported:	10/17/2012	Sampling Type:	Soil
Project Name:	STRAWBERRY 7 FED. NO. 2	Sampling Condition:	Cool & Intact
Project Number:	700794.027.01	Sample Received By:	Jodi Henson
Project Location:	SEC.7-T19S-R31E		

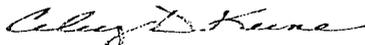
**Sample ID: S - 14 0.5 BGS (H202494-12)**

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/16/2012	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager





## Bratcher, Mike, EMNRD

---

**From:** Michael Stubblefield <mstubblefield@talonlpe.com>  
**Sent:** Thursday, October 18, 2012 7:19 AM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Lewis, Merle; Gregston, Terry G  
**Subject:** FW: REVISED STRAWBERRY 7 FED NO 2  
**Attachments:** H202494R TALON.pdf

Dear Mr. Mike Bratcher,

Talon/LPE is sending the analytical testing results for the soil samples collected at the Strawberry 7 Federal No.2 release. Please review the analytical test results, Devon Energy Corp. is requesting approval to back fill the excavated area at the tank battery using new soil transported to location. If further information is required please contact me.

**Mike Stubblefield**  
Project Manager  
Talon/LPE  
408 West Texas Avenue  
Artesia, New Mexico 88210  
(575) 746.8768 phone  
(575) 746.8905 fax  
(575) 441.7254 cell  
[www.talonlpe.com](http://www.talonlpe.com)



Better Business Bureau Torch Award for Marketplace Ethics: 2010 Winner, 2009 Finalist  
Staples Foundation for Learning Hall of Fame Recipient: 2010  
ICIC and Business Week- Top 100: 2010, 2009, 2008, 2007, 2006  
Inc. 500/5000: 2011, 2010, 2009, 2008, 2007

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**From:** Celey Keene [<mailto:celey.keene@cardinallabsnm.com>]  
**Sent:** Wednesday, October 17, 2012 4:47 PM  
**To:** Michael Stubblefield; David Adkins; Kimberly M. Wilson  
**Subject:** REVISED STRAWBERRY 7 FED NO 2

This is revised report with the sample id changed for the last two samples. This report will replace the one sent on 10/17/12.

Thank you,

**Celey Keene**  
Lab Director  
Cardinal Laboratories  
101 East Marland  
Hobbs, NM 88240  
T: (575) 393-2326  
F: (575) 393-2476

e-mail: [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)

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October 17, 2012

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: STRAWBERRY 7 FED. NO. 2

Enclosed are the results of analyses for samples received by the laboratory on 10/12/12 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

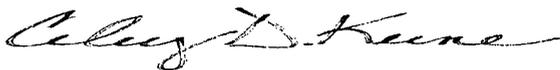
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	10/12/2012	Sampling Date:	10/11/2012
Reported:	10/17/2012	Sampling Type:	Soil
Project Name:	STRAWBERRY 7 FED. NO. 2	Sampling Condition:	Cool & Intact
Project Number:	700794.027.01	Sample Received By:	Jodi Henson
Project Location:	SEC.7-T19S-R31E		

**Sample ID: S - 3 (H202494-01)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2012	ND	2.17	108	2.00	5.24		
Toluene*	<0.050	0.050	10/16/2012	ND	1.99	99.4	2.00	4.39		
Ethylbenzene*	<0.050	0.050	10/16/2012	ND	1.96	97.8	2.00	4.26		
Total Xylenes*	<0.150	0.150	10/16/2012	ND	5.74	95.6	6.00	3.82		

*Surrogate: 4-Bromofluorobenzene (PIC)*      98.7 %      89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>336</b>	16.0	10/16/2012	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/15/2012	ND	181	90.3	200	0.0725		
<b>DRO &gt;C10-C28</b>	<b>330</b>	10.0	10/15/2012	ND	175	87.3	200	1.06		

*Surrogate: 1-Chlorooctane*      82.0 %      65.2-140

*Surrogate: 1-Chlorooctadecane*      86.6 %      63.6-154

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	10/12/2012	Sampling Date:	10/11/2012
Reported:	10/17/2012	Sampling Type:	Soil
Project Name:	STRAWBERRY 7 FED. NO. 2	Sampling Condition:	Cool & Intact
Project Number:	700794.027.01	Sample Received By:	Jodi Henson
Project Location:	SEC.7-T19S-R31E		

**Sample ID: S - 4 (H202494-02)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2012	ND	2.17	108	2.00	5.24		
Toluene*	<0.050	0.050	10/16/2012	ND	1.99	99.4	2.00	4.39		
Ethylbenzene*	<0.050	0.050	10/16/2012	ND	1.96	97.8	2.00	4.26		
Total Xylenes*	<0.150	0.150	10/16/2012	ND	5.74	95.6	6.00	3.82		

Surrogate: 4-Bromofluorobenzene (PIE) 98.8 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>320</b>	16.0	10/16/2012	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/16/2012	ND	181	90.3	200	0.0725		
<b>DRO &gt;C10-C28</b>	<b>15.7</b>	10.0	10/16/2012	ND	175	87.3	200	1.06		

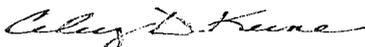
Surrogate: 1-Chlorooctane 80.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 77.6 % 63.6-154

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	10/12/2012	Sampling Date:	10/11/2012
Reported:	10/17/2012	Sampling Type:	Soil
Project Name:	STRAWBERRY 7 FED. NO. 2	Sampling Condition:	Cool & Intact
Project Number:	700794.027.01	Sample Received By:	Jodi Henson
Project Location:	SEC.7-T19S-R31E		

**Sample ID: S - 5 (H202494-03)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2012	ND	2.17	108	2.00	5.24		
Toluene*	<0.050	0.050	10/16/2012	ND	1.99	99.4	2.00	4.39		
Ethylbenzene*	<0.050	0.050	10/16/2012	ND	1.96	97.8	2.00	4.26		
Total Xylenes*	<0.150	0.150	10/16/2012	ND	5.74	95.6	6.00	3.82		

*Surrogate: 4-Bromofluorobenzene (PIE)*      96.3 %      89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>32.0</b>	16.0	10/16/2012	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/16/2012	ND	180	90.0	200	8.27		
DRO >C10-C28	<10.0	10.0	10/16/2012	ND	179	89.6	200	8.85		

*Surrogate: 1-Chlorooctane*      85.5 %      65.2-140

*Surrogate: 1-Chlorooctadecane*      79.8 %      63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	10/12/2012	Sampling Date:	10/11/2012
Reported:	10/17/2012	Sampling Type:	Soil
Project Name:	STRAWBERRY 7 FED. NO. 2	Sampling Condition:	Cool & Intact
Project Number:	700794.027.01	Sample Received By:	Jodi Henson
Project Location:	SEC.7-T19S-R31E		

**Sample ID: S - 6 (H202494-04)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2012	ND	2.17	108	2.00	5.24		
Toluene*	<0.050	0.050	10/16/2012	ND	1.99	99.4	2.00	4.39		
Ethylbenzene*	<0.050	0.050	10/16/2012	ND	1.96	97.8	2.00	4.26		
Total Xylenes*	<0.150	0.150	10/16/2012	ND	5.74	95.6	6.00	3.82		

Surrogate: 4-Bromofluorobenzene (PIC) 100 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	10/16/2012	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/16/2012	ND	180	90.0	200	8.27		
DRO >C10-C28	<10.0	10.0	10/16/2012	ND	179	89.6	200	8.85		

Surrogate: 1-Chlorooctane 88.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.8 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	10/12/2012	Sampling Date:	10/11/2012
Reported:	10/17/2012	Sampling Type:	Soil
Project Name:	STRAWBERRY 7 FED. NO. 2	Sampling Condition:	Cool & Intact
Project Number:	700794.027.01	Sample Received By:	Jodi Henson
Project Location:	SEC.7-T19S-R31E		

**Sample ID: S - 7 (H202494-05)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2012	ND	2.17	108	2.00	5.24		
Toluene*	<0.050	0.050	10/16/2012	ND	1.99	99.4	2.00	4.39		
Ethylbenzene*	<0.050	0.050	10/16/2012	ND	1.96	97.8	2.00	4.26		
Total Xylenes*	<0.150	0.150	10/16/2012	ND	5.74	95.6	6.00	3.82		

*Surrogate: 4-Bromofluorobenzene (PIC) 102 % 89.4-126*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>32.0</b>	16.0	10/16/2012	ND	416	104	400	3.92		

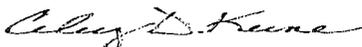
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/16/2012	ND	180	90.0	200	8.27		
<b>DRO &gt;C10-C28</b>	<b>62.2</b>	10.0	10/16/2012	ND	179	89.6	200	8.85		

*Surrogate: 1-Chlorooctane 90.7 % 65.2-140*
*Surrogate: 1-Chlorooctadecane 92.5 % 63.6-154*

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	10/12/2012	Sampling Date:	10/11/2012
Reported:	10/17/2012	Sampling Type:	Soil
Project Name:	STRAWBERRY 7 FED. NO. 2	Sampling Condition:	Cool & Intact
Project Number:	700794.027.01	Sample Received By:	Jodi Henson
Project Location:	SEC.7-T19S-R31E		

**Sample ID: S - 8 (H202494-06)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2012	ND	2.17	108	2.00	5.24		
Toluene*	<0.050	0.050	10/16/2012	ND	1.99	99.4	2.00	4.39		
Ethylbenzene*	<0.050	0.050	10/16/2012	ND	1.96	97.8	2.00	4.26		
Total Xylenes*	<0.150	0.150	10/16/2012	ND	5.74	95.6	6.00	3.82		

Surrogate: 4-Bromofluorobenzene (PIC) 99.6 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	10/16/2012	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/16/2012	ND	180	90.0	200	8.27		
DRO >C10-C28	2750	10.0	10/16/2012	ND	179	89.6	200	8.85		

Surrogate: 1-Chlorooctane 83.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 139 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	10/12/2012	Sampling Date:	10/11/2012
Reported:	10/17/2012	Sampling Type:	Soil
Project Name:	STRAWBERRY 7 FED. NO. 2	Sampling Condition:	Cool & Intact
Project Number:	700794.027.01	Sample Received By:	Jodi Henson
Project Location:	SEC.7-T19S-R31E		

**Sample ID: S - 9 (H202494-07)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2012	ND	2.17	108	2.00	5.24		
Toluene*	<0.050	0.050	10/16/2012	ND	1.99	99.4	2.00	4.39		
Ethylbenzene*	<0.050	0.050	10/16/2012	ND	1.96	97.8	2.00	4.26		
Total Xylenes*	<0.150	0.150	10/16/2012	ND	5.74	95.6	6.00	3.82		

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>256</b>	16.0	10/16/2012	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/16/2012	ND	180	90.0	200	8.27		
DRO >C10-C28	<10.0	10.0	10/16/2012	ND	179	89.6	200	8.85		

Surrogate: 1-Chlorooctane 91.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.5 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	10/12/2012	Sampling Date:	10/11/2012
Reported:	10/17/2012	Sampling Type:	Soil
Project Name:	STRAWBERRY 7 FED. NO. 2	Sampling Condition:	Cool & Intact
Project Number:	700794.027.01	Sample Received By:	Jodi Henson
Project Location:	SEC.7-T19S-R31E		

**Sample ID: S - 10 (H202494-08)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2012	ND	2.17	108	2.00	5.24		
Toluene*	<0.050	0.050	10/16/2012	ND	1.99	99.4	2.00	4.39		
Ethylbenzene*	<0.050	0.050	10/16/2012	ND	1.96	97.8	2.00	4.26		
Total Xylenes*	<0.150	0.150	10/16/2012	ND	5.74	95.6	6.00	3.82		

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>208</b>	16.0	10/16/2012	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/16/2012	ND	180	90.0	200	8.27		
DRO >C10-C28	<10.0	10.0	10/16/2012	ND	179	89.6	200	8.85		

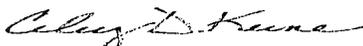
Surrogate: 1-Chlorooctane 87.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.8 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	10/12/2012	Sampling Date:	10/11/2012
Reported:	10/17/2012	Sampling Type:	Soil
Project Name:	STRAWBERRY 7 FED. NO. 2	Sampling Condition:	Cool & Intact
Project Number:	700794.027.01	Sample Received By:	Jodi Henson
Project Location:	SEC.7-T19S-R31E		

**Sample ID: S - 11 (H202494-09)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2012	ND	2.17	108	2.00	5.24		
Toluene*	<0.050	0.050	10/16/2012	ND	1.99	99.4	2.00	4.39		
Ethylbenzene*	<0.050	0.050	10/16/2012	ND	1.96	97.8	2.00	4.26		
Total Xylenes*	<0.150	0.150	10/16/2012	ND	5.74	95.6	6.00	3.82		

Surrogate: 4-Bromofluorobenzene (PIC) 99.5 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/16/2012	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/16/2012	ND	180	90.0	200	8.27		
DRO >C10-C28	<10.0	10.0	10/16/2012	ND	179	89.6	200	8.85		

Surrogate: 1-Chlorooctane 87.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.3 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	10/12/2012	Sampling Date:	10/11/2012
Reported:	10/17/2012	Sampling Type:	Soil
Project Name:	STRAWBERRY 7 FED. NO. 2	Sampling Condition:	Cool & Intact
Project Number:	700794.027.01	Sample Received By:	Jodi Henson
Project Location:	SEC.7-T19S-R31E		

**Sample ID: S - 12 (H202494-10)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2012	ND	2.17	108	2.00	5.24		
Toluene*	<0.050	0.050	10/16/2012	ND	1.99	99.4	2.00	4.39		
Ethylbenzene*	<0.050	0.050	10/16/2012	ND	1.96	97.8	2.00	4.26		
Total Xylenes*	<0.150	0.150	10/16/2012	ND	5.74	95.6	6.00	3.82		

*Surrogate: 4-Bromofluorobenzene (PIE) 103 % 89.4-126*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>128</b>	16.0	10/16/2012	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/16/2012	ND	180	90.0	200	8.27		
<b>DRO &gt;C10-C28</b>	<b>78.4</b>	10.0	10/16/2012	ND	179	89.6	200	8.85		

*Surrogate: 1-Chlorooctane 84.0 % 65.2-140*
*Surrogate: 1-Chlorooctadecane 82.7 % 63.6-154*
**Sample ID: S-13 0.5 BGS (H202494-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2012	ND	400	100	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	10/12/2012	Sampling Date:	10/11/2012
Reported:	10/17/2012	Sampling Type:	Soil
Project Name:	STRAWBERRY 7 FED. NO. 2	Sampling Condition:	Cool & Intact
Project Number:	700794.027.01	Sample Received By:	Jodi Henson
Project Location:	SEC.7-T19S-R31E		

**Sample ID: S - 14 0.5 BGS (H202494-12)**

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/16/2012	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

Company Name: <u>Talon/LPE</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: <u>Mike Stuebel</u>				P.O. #:															
Address: <u>409 West Texas Ave.</u>				Company: <u>Talon/LPE</u>															
City: <u>Artesia</u> State: <u>N.M.</u> Zip: <u>88210</u>				Attn:															
Phone #: <u>505-441-7254</u> Fax #:				Address:															
Project #: <u>700794.027.01</u> Project Owner: <u>Devon Energy Co.</u>				City:															
Project Name: <u>Strawberry 2 Fed. No. 2</u>				State: Zip:															
Project Location: <u>sec. 7 - TRS R31E</u>				Phone #:															
Sampler Name: <u>Mike Stuebel</u>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	GRAB OR (COMP. # CONTAINERS	MATRIX					PRESERV.			SAMPLING		80159 TPH	80213 BTEX	Total Alkylides				
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE				TIME			
H202494																			
1	S-3	C			/			/			10/11/12	11:30A	/	/	/				
2	S-4	C			/			/			10/11/12	11:36A	/	/	/				
3	S-5	C			/			/			10/11/12	11:39A	/	/	/				
4	S-6	C			/			/			10/11/12	11:43A	/	/	/				
5	S-7	C			/			/			10/11/12	11:44A	/	/	/				
6	S-8	C			/			/			10/11/12	11:41A	/	/	/				
7	S-9	C			/			/			10/11/12	11:47A	/	/	/				
8	S-10	C			/			/			10/11/12	11:50A	/	/	/				
9	S-11	C			/			/			10/11/12	11:53A	/	/	/				
10	S-12	C			/			/			10/11/12	11:59A	/	/	/				
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors, arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																			
Relinquished By: <u>Mike Stuebel</u>		Date: <u>10/12/12</u> Time: <u>2:50 pm</u>		Received By: <u>M. S. May</u>		Date:		Time:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:		REMARKS:					
Delivered By: (Circle One) Sampler - UPS - Bus - <u>Other</u>		Sample Condition Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: <u>(Initials)</u>															

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

#126

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

 101 East Marland, Hobbs, NM 88240  
 (575) 393-2326 FAX (575) 393-2476

Company Name: <u>Talon/LPE</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>							
Project Manager: <u>Mike Stubblefield</u>				P.O. #:											
Address: <u>408 West Texas Ave</u>				Company: <u>Talon/LPE</u>											
City: <u>Artesia</u>		State: <u>NM</u>		Zip: <u>88210</u>		Attn:									
Phone #: <u>575-441-7751</u>		Fax #:		Address:											
Project #: <u>700794.027.01</u>		Project Owner: <u>Ocean Energy Co</u>		City:											
Project Name: <u>Starbuckery 2 Fed. No. 2</u>				State: _____				Zip: _____							
Project Location: <u>loc. 2 - 495-R31E</u>				Phone #:											
Sampler Name: <u>Mike Stubblefield</u>				Fax #:											
FOR LAB USE ONLY		# CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	REMARKS	
Lab I.D.	Sample I.D.		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER				
<u>H202494</u>	<u>S-13 0.5 BGS *</u>	/							/			<u>10/11/12</u>	<u>12:00P</u>	<u>8015 M TPH</u>	
<u>11</u>	<u>S-14 6" bjt lower road</u>	/							/			<u>10/11/12</u>	<u>12:04P</u>	<u>80218 BTEX</u>	
<u>17</u>	<u>S-5 6" sgs trace road</u>	/							/					<u>75141 chlordor</u>	
	<u>S-14 0.5 BGS *</u>														

PLEASE NOTE: Liability and Damages. Cardinal's liability and Client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated business or otherwise.

Relinquished By: <u>Mike Stubblefield</u>	Date: <u>10/12/12</u>	Received By: <u>Mason Mung</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>11:50 pm</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: <u>* Sample id changed as per Mike. 10/17/12.</u>	
Delivered By: (Circle One) Sampler - UPS - Bus - <u>Other</u>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (initials) <u>[Signature]</u>		