

State of New Mexico  
Oil Conservation Division

Incident ID	nOY1720547847
District RP	
Facility ID	30-025-42685
Application ID	

## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Dale Woodall

Title: Environmental Professional

Signature: Dale Woodall

Date: 07/06/2022

email: [Dale.Woodall@dvn.com](mailto:Dale.Woodall@dvn.com)

Telephone: 575.748.1838

**OCD Only**Received by: OCDDate: 7/6/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Ashley Maxwell Date: 9/20/2022Printed Name: Ashley MaxwellTitle: Environmental Specialist

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## **Remediation and Closure Report**

Billiken 6 Federal #1H Battery  
API # 30-025-42685 \* **1RP-4761**  
Talon Project No. 700794.233.01

### **Prepared For:**

Devon Energy Corporation  
6488 Seven Rivers Hwy  
Artesia, New Mexico 88210

### **Prepared By:**

Talon/LPE  
408 West Texas  
Artesia, New Mexico 88210

**April 19, 2018**

Ms. Olivia Yu  
**NMOCD District 1**  
1625 N. French Dr.  
Hobbs, NM 88240

Subject: **Remediation and Closure Report**  
Billiken 6 Federal #1H Battery  
API # 30-025-42685 \* **1RP-4761**

Dear Ms. Yu,

Devon Energy contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The incident description, soil sampling results, remediation activities and closure request are submitted herein.

### **Site Information and Soil Survey**

The Billiken CTB is located approximately one hundred eight (108) miles southeast of Artesia, New Mexico. The legal location for this site is Unit Letter M, Section 6, Township 26 South, and Range 35 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.065941 North and -103.414039 West. A site map is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service (NRCS), the soil in this area is made up of Pyote and Maljamar fine sands. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to middle Pleistocene in age and is comprised of eolian sands and piedmont deposits. Drainage courses in this area are normally dry.

### **Ground Water and Site Ranking**

According to the New Mexico State Engineer web site there is no published groundwater information within 5,000 meters of the release are. However, according to the Chevron Texaco Groundwater Map, the groundwater in this area is greater the 200-feet below ground surface (BGS).

Therefore the ranking for this site is a **0** based on the following:

Depth to ground water	>100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 5,000 mg/kg for TPH. The recommended guideline for total chlorides is 600 mg/kg.

### Incident Description and Initial Remedial Actions

On July 4, 2017 lightning struck two 500 BBL fiberglass water tanks at the facility causing 255 barrels of produced water to be released into the secondary containment ring. Due to the lightning strike and fire the east sidewall was damaged causing 3.4 barrels to be released onto the well pad surface. No fluids left the location and the remaining 251 barrels of fluid remained in the lined SPCC containment ring. A vac truck recovered the 251 barrels of fluid. Once the fluid was removed, the liner was visually inspected by Devon field staff for any pinholes or punctures. The liner was not breached and no damage was found. A site plan is presented in [Appendix I](#) which illustrates the impacted area.

### Remedial Actions

In accordance with an approved work plan with stipulations from NMOCD District I office and follow-up emails, all remediation activities and stipulations were adhered too. See attached NMOCD emails regarding the stipulations/conditions in [Appendix II](#).

All impacted soil was transported to Lea Land, LLC, an approved disposal facility.

The excavated areas on location were backfilled with new caliche, machine compacted and re-contoured to match the surrounding location.

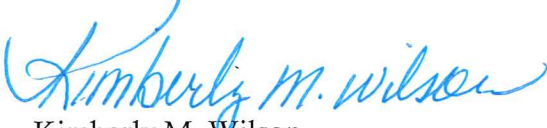
### Closure

Based on laboratory analytical results indicating Chlorides, TPH and BTEX concentrations are less than NMOCD RRAL's guidelines and on behalf of Devon Energy, we respectfully request that no further actions be required and that closure with respect to this release be granted.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768

Respectfully submitted,

TALON/LPE



Kimberly M. Wilson  
Project Manager



David J. Adkins  
District Manager

Attachments:

Appendix I    Site Map  
Appendix II   Regulatory Emails



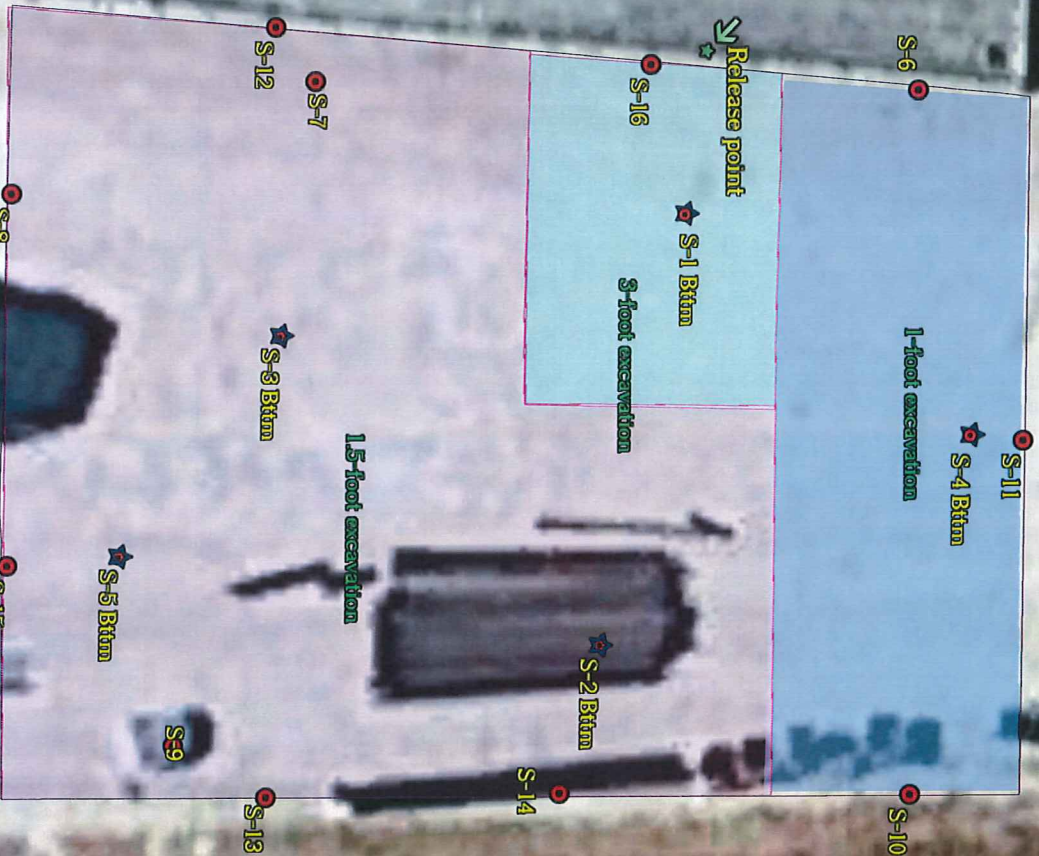


## Appendix I

### Site Map A

# Billiken 6 Federal 1H

Devon Energy



## Legend

- Release point
- Sample Locations
- Bottom Excavation Sample
- 1.0-foot Excavation
- 3.0-foot Excavation
- 1.5-foot Excavation





## Appendix I=

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**Kimberly M. Wilson**

**From:** Yu, Olivia, EMNRD [Olivia.Yu@state.nm.us]  
**Sent:** Thursday, March 08, 2018 8:54 AM  
**To:** Kimberly M. Wilson; Tucker, Shelly  
**Cc:** mike.shoemaker@dvn.com; David J. Adkins  
**Subject:** RE: Billiken 6 Federal #1 Work Plan

Ms. Wilson:

Acknowledged. Thanks for your prompt response.

Olivia

---

**From:** Kimberly M. Wilson [mailto:kwilson@talonlpe.com]  
**Sent:** Thursday, March 8, 2018 7:49 AM  
**To:** Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; Tucker, Shelly <stucker@blm.gov>  
**Cc:** mike.shoemaker@dvn.com; David J. Adkins <dadkins@talonlpe.com>  
**Subject:** RE: Billiken 6 Federal #1 Work Plan

Olivia,

There are no sidewalls for the different depths, the sides are sloping into the next. I will take note and advise my operators of the importance of defined sidewalls.

Thank you,  
Kimberly

---

**From:** Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]  
**Sent:** Thursday, March 08, 2018 7:37 AM  
**To:** Kimberly M. Wilson; Tucker, Shelly  
**Cc:** mike.shoemaker@dvn.com; David J. Adkins  
**Subject:** RE: Billiken 6 Federal #1 Work Plan

Good morning Ms. Wilson:

Are there data for the borders of the areas with different depths of excavation: between 3 ft. and 1 ft. excavated area; between 3 ft. and 1.5 ft.; and between 1.5 ft. and 1 ft.? This was a condition stipulated in the email dated December 7, 2017: "Each different depth of excavation must have at least one set of confirmation bottom and sidewalls."

If not, please be advised that for future 1RPs, confirmation samples from the borders of differing depths of excavation will be required for backfill approval.

NMOCD will grant backfill approval for 1RP-4761. Like approval from BLM required.

Thanks,  
Olivia

---

**From:** Kimberly M. Wilson [mailto:kwilson@talonlpe.com]  
**Sent:** Tuesday, March 6, 2018 3:10 PM  
**To:** Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>



**APPROVED****By Olivia Yu at 7:35 am, Mar 08, 2018**NMOCD grants  
backfill approval  
to 1RP-4761.Subject: Devon Energy  
Billiken 6 Federal CTB

Sample ID	GPS Coordinate	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO	TPH (mg/kg) EXT DRO
S-1	32.065862 -103.413820	2.5	--	3200	--	--	--
S-1		3.0	<0.300	272	<10	<10	<10
S-2	32.065847 -103.413717	1.5	--	32	--	--	--
S-3	32.065780 -103.413788	1.5	<0.300	32	<10	<10	<10
S-4	32.065930 -103.413768	--	--	--	--	--	--
S-5	32.065750 -103.413739	1.5	--	64	--	--	--
S-6	32.065914 -103.413853	NW Sidewall	--	16	--	--	--
S-7	32.065784 -103.413845	Sidewall	--	1880	--	--	--
S-8	32.065729 -103.413816	SW Sidewall	<0.300	16	<10	<10	<10
S-9	32.065761 -103.413696	Sidewall	--	1090	--	--	--
S-10	32.065917 -103.413678	NE Sidewall	--	32	--	--	--
S-11	32.065835 -103.413770	N Sidewall	<0.300	16	<10	<10	<10
S-12	32.065776 -103.413856	W Sidewall	<0.300	464	<10	<10	<10
S-13	32.065779 -103.413684	E Sidewall	<0.300	64	<10	<10	<10
S-14	32.065839 -103.413682	E Sidewall	--	128	--	--	--
S-15	32.065730 -103.413736	SE Sidewall	--	192	--	--	--
S-16	32.065853 -103.413854	W Sidewall	--	512	--	--	--

--Analyte Not Tested



## Appendix I= Laboratory Data



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

August 08, 2017

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BILLIKEN 6 FED 1H

Enclosed are the results of analyses for samples received by the laboratory on 08/02/17 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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,

Caley D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/02/2017  
Reported: 08/08/2017  
Project Name: BILLIKEN 6 FED 1H  
Project Number: 700794.233.01  
Project Location: NOT GIVEN

Sampling Date: 08/02/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: S-1 0' (H702035-01)**

BTX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/04/2017	ND	2.27	113	2.00	1.36		
Toluene*	<0.050	0.050	08/04/2017	ND	2.10	105	2.00	0.0527		
Ethylbenzene*	<0.050	0.050	08/04/2017	ND	2.19	110	2.00	1.11		
Total Xylenes*	<0.150	0.150	08/04/2017	ND	6.57	109	6.00	0.942		
Total BTEX	<0.300	0.300	08/04/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 72-148

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	15600	16.0	08/07/2017	ND	448	112	400	3.64		

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	08/04/2017	ND	190	95.0	200	1.88	
DRO >C10-C28	<10.0	10.0	08/04/2017	ND	192	95.9	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/04/2017	ND					

Surrogate: 1-Chlorooctane 84.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 82.1 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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*Celestine Keene*

Celestine D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	08/02/2017	Sampling Date:	08/02/2017
Reported:	08/08/2017	Sampling Type:	Soil
Project Name:	BILLIKEN 6 FED 1H	Sampling Condition:	** (See Notes)
Project Number:	700794.233.01	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: S-1 1' (H702035-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2017	ND	2.27	113	2.00	1.36	
Toluene*	<0.050	0.050	08/04/2017	ND	2.10	105	2.00	0.0527	
Ethylbenzene*	<0.050	0.050	08/04/2017	ND	2.19	110	2.00	1.11	
Total Xylenes*	<0.150	0.150	08/04/2017	ND	6.57	109	6.00	0.942	
Total BTEX	<0.300	0.300	08/04/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10600	16.0	08/07/2017	ND	448	112	400	3.64		

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	08/04/2017	ND	190	95.0	200	1.88	
DRO >C10-C28	<10.0	10.0	08/04/2017	ND	192	95.9	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/04/2017	ND					

Surrogate: 1-Chlorooctane 97.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 95.4 % 34.7-157

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\*=Accredited Analyte

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*Celestine Keene*

Celestine D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/02/2017  
Reported: 08/08/2017  
Project Name: BILLIKEN 6 FED 1H  
Project Number: 700794.233.01  
Project Location: NOT GIVEN

Sampling Date: 08/02/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: S-1 2' (H702035-03)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2017	ND	2.27	113	2.00	1.36	
Toluene*	<0.050	0.050	08/04/2017	ND	2.10	105	2.00	0.0527	
Ethylbenzene*	<0.050	0.050	08/04/2017	ND	2.19	110	2.00	1.11	
Total Xylenes*	<0.150	0.150	08/04/2017	ND	6.57	109	6.00	0.942	
Total BTEx	<0.300	0.300	08/04/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1840	16.0	08/07/2017	ND	448	112	400	3.64		

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	08/04/2017	ND	190	95.0	200	1.88	
DRO >C10-C28	<10.0	10.0	08/04/2017	ND	192	95.9	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/04/2017	ND					

Surrogate: 1-Chlorooctane 89.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 87.6 % 34.7-157

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\*=Accredited Analyte

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*Coley D. Keene*

Coley D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/02/2017  
Reported: 08/08/2017  
Project Name: BILLIKEN 6 FED 1H  
Project Number: 700794.233.01  
Project Location: NOT GIVEN

Sampling Date: 08/02/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: S-1 3' (H702035-04)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2017	ND	2.27	113	2.00	1.36	
Toluene*	<0.050	0.050	08/04/2017	ND	2.10	105	2.00	0.0527	
Ethylbenzene*	<0.050	0.050	08/04/2017	ND	2.19	110	2.00	1.11	
Total Xylenes*	<0.150	0.150	08/04/2017	ND	6.57	109	6.00	0.942	
Total BTEX	<0.300	0.300	08/04/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	08/07/2017	ND	448	112	400	3.64		

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	08/04/2017	ND	190	95.0	200	1.88		
DRO >C10-C28	<10.0	10.0	08/04/2017	ND	192	95.9	200	2.00		
EXT DRO >C28-C36	<10.0	10.0	08/04/2017	ND						

Surrogate: 1-Chlorooctane 102 % 28.3-164

Surrogate: 1-Chlorooctadecane 101 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/02/2017	Sampling Date:	08/02/2017
Reported:	08/08/2017	Sampling Type:	Soil
Project Name:	BILLIKEN 6 FED 1H	Sampling Condition:	** (See Notes)
Project Number:	700794.233.01	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: S-1 4' (H702035-05)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2017	ND	2.27	113	2.00	1.36	
Toluene*	<0.050	0.050	08/04/2017	ND	2.10	105	2.00	0.0527	
Ethylbenzene*	<0.050	0.050	08/04/2017	ND	2.19	110	2.00	1.11	
Total Xylenes*	<0.150	0.150	08/04/2017	ND	6.57	109	6.00	0.942	
Total BTEX	<0.300	0.300	08/04/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/07/2017	ND	448	112	400	3.64		

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	08/04/2017	ND	190	95.0	200	1.88	
DRO >C10-C28	<10.0	10.0	08/04/2017	ND	192	95.9	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/04/2017	ND					

Surrogate: 1-Chlorooctane 102 % 28.3-164

Surrogate: 1-Chlorooctadecane 100 % 34.7-157

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	08/02/2017	Sampling Date:	08/02/2017
Reported:	08/08/2017	Sampling Type:	Soil
Project Name:	BILLIKEN 6 FED 1H	Sampling Condition:	** (See Notes)
Project Number:	700794.233.01	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: S-2 0' (H702035-06)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2017	ND	2.27	113	2.00	1.36	
Toluene*	<0.050	0.050	08/04/2017	ND	2.10	105	2.00	0.0527	
Ethylbenzene*	<0.050	0.050	08/04/2017	ND	2.19	110	2.00	1.11	
Total Xylenes*	<0.150	0.150	08/04/2017	ND	6.57	109	6.00	0.942	
Total BTEX	<0.300	0.300	08/04/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6600	16.0	08/07/2017	ND	448	112	400	3.64		

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	08/04/2017	ND	190	95.0	200	1.88	
DRO >C10-C28	<10.0	10.0	08/04/2017	ND	192	95.9	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/04/2017	ND					

Surrogate: 1-Chlorooctane 102 % 28.3-164

Surrogate: 1-Chlorooctadecane 102 % 34.7-157

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*Celestine Keene*

Celestine D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/02/2017  
Reported: 08/08/2017  
Project Name: BILLIKEN 6 FED 1H  
Project Number: 700794.233.01  
Project Location: NOT GIVEN

Sampling Date: 08/02/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: S-2 1' (H702035-07)**

BTEx 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2017	ND	2.27	113	2.00	1.36	
Toluene*	<0.050	0.050	08/04/2017	ND	2.10	105	2.00	0.0527	
Ethylbenzene*	0.051	0.050	08/04/2017	ND	2.19	110	2.00	1.11	
Total Xylenes*	<0.150	0.150	08/04/2017	ND	6.57	109	6.00	0.942	
Total BTEX	<0.300	0.300	08/04/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	08/07/2017	ND	448	112	400	3.64		

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	08/04/2017	ND	190	95.0	200	1.88	
DRO >C10-C28	<10.0	10.0	08/04/2017	ND	192	95.9	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/04/2017	ND					

Surrogate: 1-Chlorooctane 93.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 91.0 % 34.7-157

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*Celestine D. Keene*

Celestine D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/02/2017  
Reported: 08/08/2017  
Project Name: BILLIKEN 6 FED 1H  
Project Number: 700794.233.01  
Project Location: NOT GIVEN

Sampling Date: 08/02/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: S-2 2' (H702035-08)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2017	ND	2.27	113	2.00	1.36	
Toluene*	<0.050	0.050	08/04/2017	ND	2.10	105	2.00	0.0527	
Ethylbenzene*	0.051	0.050	08/04/2017	ND	2.19	110	2.00	1.11	
Total Xylenes*	<0.150	0.150	08/04/2017	ND	6.57	109	6.00	0.942	
Total BTEX	<0.300	0.300	08/04/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/07/2017	ND	448	112	400	3.64		

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	08/04/2017	ND	190	95.0	200	1.88		
DRO >C10-C28	<10.0	10.0	08/04/2017	ND	192	95.9	200	2.00		
EXT DRO >C28-C36	<10.0	10.0	08/04/2017	ND						

Surrogate: 1-Chlorooctane 102 % 28.3-164

Surrogate: 1-Chlorooctadecane 101 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/02/2017  
 Reported: 08/08/2017  
 Project Name: BILLIKEN 6 FED 1H  
 Project Number: 700794.233.01  
 Project Location: NOT GIVEN

Sampling Date: 08/02/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: S-2 3' (H702035-09)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2017	ND	2.27	113	2.00	1.36	
Toluene*	<0.050	0.050	08/04/2017	ND	2.10	105	2.00	0.0527	
Ethylbenzene*	<0.050	0.050	08/04/2017	ND	2.19	110	2.00	1.11	
Total Xylenes*	<0.150	0.150	08/04/2017	ND	6.57	109	6.00	0.942	
Total BTEX	<0.300	0.300	08/04/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/07/2017	ND	448	112	400	3.64		

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	08/04/2017	ND	190	95.0	200	1.88	
DRO >C10-C28	<10.0	10.0	08/04/2017	ND	192	95.9	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/04/2017	ND					

Surrogate: 1-Chlorooctane 94.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 94.5 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	08/02/2017	Sampling Date:	08/02/2017
Reported:	08/08/2017	Sampling Type:	Soil
Project Name:	BILLIKEN 6 FED 1H	Sampling Condition:	** (See Notes)
Project Number:	700794.233.01	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: S-2 4' (H702035-10)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/04/2017	ND	2.27	113	2.00	1.36		
Toluene*	<0.050	0.050	08/04/2017	ND	2.10	105	2.00	0.0527		
Ethylbenzene*	<0.050	0.050	08/04/2017	ND	2.19	110	2.00	1.11		
Total Xylenes*	<0.150	0.150	08/04/2017	ND	6.57	109	6.00	0.942		
Total BTEX	<0.300	0.300	08/04/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/07/2017	ND	448	112	400	3.64		

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	08/04/2017	ND	190	95.0	200	1.88	
DRO >C10-C28	<10.0	10.0	08/04/2017	ND	192	95.9	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/04/2017	ND					

Surrogate: 1-Chlorooctane 101 % 28.3-164

Surrogate: 1-Chlorooctadecane 101 % 34.7-157

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*Cleley D. Keene*

Cleley D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/02/2017  
 Reported: 08/08/2017  
 Project Name: BILLIKEN 6 FED 1H  
 Project Number: 700794.233.01  
 Project Location: NOT GIVEN

Sampling Date: 08/02/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: S-3 0' (H702035-11)**

BTEx 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2017	ND	2.27	113	2.00	1.36	
Toluene*	<0.050	0.050	08/04/2017	ND	2.10	105	2.00	0.0527	
Ethylbenzene*	0.050	0.050	08/04/2017	ND	2.19	110	2.00	1.11	
Total Xylenes*	<0.150	0.150	08/04/2017	ND	6.57	109	6.00	0.942	
Total BTEX	<0.300	0.300	08/04/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	17200	16.0	08/07/2017	ND	448	112	400	3.64		

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	08/04/2017	ND	190	95.0	200	1.88	
DRO >C10-C28	<10.0	10.0	08/04/2017	ND	192	95.9	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/04/2017	ND					

Surrogate: 1-Chlorooctane 96.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 95.6 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/02/2017  
Reported: 08/08/2017  
Project Name: BILLIKEN 6 FED 1H  
Project Number: 700794.233.01  
Project Location: NOT GIVEN

Sampling Date: 08/02/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: S-3 1' (H702035-12)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/07/2017	ND	2.04	102	2.00	1.80		
Toluene*	<0.050	0.050	08/07/2017	ND	1.90	95.1	2.00	1.29		
Ethylbenzene*	<0.050	0.050	08/07/2017	ND	1.99	99.3	2.00	1.78		
Total Xylenes*	<0.150	0.150	08/07/2017	ND	5.89	98.1	6.00	2.12		
Total BTX	<0.300	0.300	08/07/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5600	16.0	08/07/2017	ND	448	112	400	0.00	QM-07	

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	08/04/2017	ND	190	95.0	200	1.88	
DRO >C10-C28	<10.0	10.0	08/04/2017	ND	192	95.9	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/04/2017	ND					

Surrogate: 1-Chlorooctane 103 % 28.3-164

Surrogate: 1-Chlorooctadecane 114 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/02/2017  
Reported: 08/08/2017  
Project Name: BILLIKEN 6 FED 1H  
Project Number: 700794.233.01  
Project Location: NOT GIVEN

Sampling Date: 08/02/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: S-3 2' (H702035-13)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2017	ND	2.04	102	2.00	1.80	
Toluene*	<0.050	0.050	08/07/2017	ND	1.90	95.1	2.00	1.29	
Ethylbenzene*	<0.050	0.050	08/07/2017	ND	1.99	99.3	2.00	1.78	
Total Xylenes*	<0.150	0.150	08/07/2017	ND	5.89	98.1	6.00	2.12	
Total BTEx	<0.300	0.300	08/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/07/2017	ND	448	112	400	0.00		

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	08/04/2017	ND	190	95.0	200	1.88	
DRO >C10-C28	<10.0	10.0	08/04/2017	ND	192	95.9	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/04/2017	ND					

Surrogate: 1-Chlorooctane 97.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 97.5 % 34.7-157

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**Analytical Results For:**

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

Received: 08/02/2017  
 Reported: 08/08/2017  
 Project Name: BILLIKEN 6 FED 1H  
 Project Number: 700794.233.01  
 Project Location: NOT GIVEN

Sampling Date: 08/02/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: S-3 3' (H702035-14)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2017	ND	2.04	102	2.00	1.80	
Toluene*	<0.050	0.050	08/07/2017	ND	1.90	95.1	2.00	1.29	
Ethylbenzene*	<0.050	0.050	08/07/2017	ND	1.99	99.3	2.00	1.78	
Total Xylenes*	<0.150	0.150	08/07/2017	ND	5.89	98.1	6.00	2.12	
Total BTEX	<0.300	0.300	08/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/07/2017	ND	448	112	400	0.00	

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	08/04/2017	ND	190	95.0	200	1.88	
DRO >C10-C28	<10.0	10.0	08/04/2017	ND	192	95.9	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/04/2017	ND					

Surrogate: 1-Chlorooctane 98.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 96.8 % 34.7-157

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/02/2017  
Reported: 08/08/2017  
Project Name: BILLIKEN 6 FED 1H  
Project Number: 700794.233.01  
Project Location: NOT GIVEN

Sampling Date: 08/02/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: S-3 4' (H702035-15)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2017	ND	2.04	102	2.00	1.80	
Toluene*	<0.050	0.050	08/07/2017	ND	1.90	95.1	2.00	1.29	
Ethylbenzene*	<0.050	0.050	08/07/2017	ND	1.99	99.3	2.00	1.78	
Total Xylenes*	<0.150	0.150	08/07/2017	ND	5.89	98.1	6.00	2.12	
Total BTEX	<0.300	0.300	08/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/07/2017	ND	448	112	400	0.00		

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	08/04/2017	ND	190	95.0	200	1.88	
DRO >C10-C28	<10.0	10.0	08/04/2017	ND	192	95.9	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/04/2017	ND					

Surrogate: 1-Chlorooctane 97.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 95.7 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 08/02/2017  
 Reported: 08/08/2017  
 Project Name: BILLIKEN 6 FED 1H  
 Project Number: 700794.233.01  
 Project Location: NOT GIVEN

Sampling Date: 08/02/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: S-4 0' (H702035-16)**

BTEX 8021B			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/07/2017	ND	2.04	102	2.00	1.80		
Toluene*	<0.050	0.050	08/07/2017	ND	1.90	95.1	2.00	1.29		
Ethylbenzene*	<0.050	0.050	08/07/2017	ND	1.99	99.3	2.00	1.78		
Total Xylenes*	<0.150	0.150	08/07/2017	ND	5.89	98.1	6.00	2.12		
Total BTEX	<0.300	0.300	08/07/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 72-148

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7330	16.0	08/07/2017	ND	448	112	400	0.00		

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	08/04/2017	ND	190	95.0	200	1.88		
DRO >C10-C28	<10.0	10.0	08/04/2017	ND	192	95.9	200	2.00		
EXT DRO >C28-C36	<10.0	10.0	08/04/2017	ND						

Surrogate: 1-Chlorooctane 97.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 96.0 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/02/2017  
Reported: 08/08/2017  
Project Name: BILLIKEN 6 FED 1H  
Project Number: 700794.233.01  
Project Location: NOT GIVEN

Sampling Date: 08/02/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: S-4 1' (H702035-17)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2017	ND	2.04	102	2.00	1.80	
Toluene*	<0.050	0.050	08/07/2017	ND	1.90	95.1	2.00	1.29	
Ethylbenzene*	<0.050	0.050	08/07/2017	ND	1.99	99.3	2.00	1.78	
Total Xylenes*	<0.150	0.150	08/07/2017	ND	5.89	98.1	6.00	2.12	
Total BTEX	<0.300	0.300	08/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	08/07/2017	ND	448	112	400	0.00		

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	08/04/2017	ND	190	95.0	200	1.88	
DRO >C10-C28	<10.0	10.0	08/04/2017	ND	192	95.9	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/04/2017	ND					

Surrogate: 1-Chlorooctane 97.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 97.3 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/02/2017  
Reported: 08/08/2017  
Project Name: BILLIKEN 6 FED 1H  
Project Number: 700794.233.01  
Project Location: NOT GIVEN

Sampling Date: 08/02/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: S-4 2' (H702035-18)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2017	ND	2.04	102	2.00	1.80	
Toluene*	<0.050	0.050	08/07/2017	ND	1.90	95.1	2.00	1.29	
Ethylbenzene*	<0.050	0.050	08/07/2017	ND	1.99	99.3	2.00	1.78	
Total Xylenes*	<0.150	0.150	08/07/2017	ND	5.89	98.1	6.00	2.12	
Total BTEx	<0.300	0.300	08/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/07/2017	ND	448	112	400	0.00	

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	08/04/2017	ND	188	94.2	200	2.39	QM-07, QR-03
DRO >C10-C28	<10.0	10.0	08/04/2017	ND	194	97.0	200	2.57	QR-03
EXT DRO >C28-C36	<10.0	10.0	08/04/2017	ND					

Surrogate: 1-Chlorooctane 98.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 101 % 34.7-157

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*Celestine Keene*

Celestine D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/02/2017  
Reported: 08/08/2017  
Project Name: BILLIKEN 6 FED 1H  
Project Number: 700794.233.01  
Project Location: NOT GIVEN

Sampling Date: 08/02/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: S-4 3' (H702035-19)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2017	ND	2.04	102	2.00	1.80	
Toluene*	<0.050	0.050	08/07/2017	ND	1.90	95.1	2.00	1.29	
Ethylbenzene*	<0.050	0.050	08/07/2017	ND	1.99	99.3	2.00	1.78	
Total Xylenes*	<0.150	0.150	08/07/2017	ND	5.89	98.1	6.00	2.12	
Total BTEX	<0.300	0.300	08/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/07/2017	ND	448	112	400	0.00	

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	08/04/2017	ND	188	94.2	200	2.39	
DRO >C10-C28	<10.0	10.0	08/04/2017	ND	194	97.0	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	08/04/2017	ND					

Surrogate: 1-Chlorooctane 90.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 95.6 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/02/2017  
 Reported: 08/08/2017  
 Project Name: BILLIKEN 6 FED 1H  
 Project Number: 700794.233.01  
 Project Location: NOT GIVEN

Sampling Date: 08/02/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: S-4 4' (H702035-20)**

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2017	ND	2.04	102	2.00	1.80	
Toluene*	<0.050	0.050	08/07/2017	ND	1.90	95.1	2.00	1.29	
Ethylbenzene*	<0.050	0.050	08/07/2017	ND	1.99	99.3	2.00	1.78	
Total Xylenes*	<0.150	0.150	08/07/2017	ND	5.89	98.1	6.00	2.12	
Total BTEX	<0.300	0.300	08/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/07/2017	ND	448	112	400	0.00	

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	08/04/2017	ND	188	94.2	200	2.39	
DRO >C10-C28	<10.0	10.0	08/04/2017	ND	194	97.0	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	08/04/2017	ND					

Surrogate: 1-Chlorooctane 88.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 92.0 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/02/2017	Sampling Date:	08/02/2017
Reported:	08/08/2017	Sampling Type:	Soil
Project Name:	BILLIKEN 6 FED 1H	Sampling Condition:	** (See Notes)
Project Number:	700794.233.01	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: S-5 0' (H702035-21)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2017	ND	2.04	102	2.00	1.80	
Toluene*	<0.050	0.050	08/07/2017	ND	1.90	95.1	2.00	1.29	
Ethylbenzene*	<0.050	0.050	08/07/2017	ND	1.99	99.3	2.00	1.78	
Total Xylenes*	<0.150	0.150	08/07/2017	ND	5.89	98.1	6.00	2.12	
Total BTEX	<0.300	0.300	08/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13200	16.0	08/07/2017	ND	448	112	400	0.00	

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	08/04/2017	ND	188	94.2	200	2.39	
DRO >C10-C28	<10.0	10.0	08/04/2017	ND	194	97.0	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	08/04/2017	ND					

Surrogate: 1-Chlorooctane 88.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 89.4 % 34.7-157

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*Coley D. Keene*

Coley D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 08/02/2017  
 Reported: 08/08/2017  
 Project Name: BILLIKEN 6 FED 1H  
 Project Number: 700794.233.01  
 Project Location: NOT GIVEN

Sampling Date: 08/02/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: S-5 1' (H702035-22)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2017	ND	2.04	102	2.00	1.80	
Toluene*	<0.050	0.050	08/07/2017	ND	1.90	95.1	2.00	1.29	
Ethylbenzene*	<0.050	0.050	08/07/2017	ND	1.99	99.3	2.00	1.78	
Total Xylenes*	<0.150	0.150	08/07/2017	ND	5.89	98.1	6.00	2.12	
Total BTEX	<0.300	0.300	08/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	08/07/2017	ND	448	112	400	0.00	

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	08/04/2017	ND	188	94.2	200	2.39	
DRO >C10-C28	<10.0	10.0	08/04/2017	ND	194	97.0	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	08/04/2017	ND					

Surrogate: 1-Chlorooctane 107 % 28.3-164

Surrogate: 1-Chlorooctadecane 109 % 34.7-157

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/02/2017  
Reported: 08/08/2017  
Project Name: BILLIKEN 6 FED 1H  
Project Number: 700794.233.01  
Project Location: NOT GIVEN

Sampling Date: 08/02/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: S-5 2' (H702035-23)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2017	ND	2.04	102	2.00	1.80	
Toluene*	<0.050	0.050	08/07/2017	ND	1.90	95.1	2.00	1.29	
Ethylbenzene*	<0.050	0.050	08/07/2017	ND	1.99	99.3	2.00	1.78	
Total Xylenes*	<0.150	0.150	08/07/2017	ND	5.89	98.1	6.00	2.12	
Total BTX	<0.300	0.300	08/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/07/2017	ND	448	112	400	0.00	

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	08/04/2017	ND	188	94.2	200	2.39	
DRO >C10-C28	<10.0	10.0	08/04/2017	ND	194	97.0	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	08/04/2017	ND					

Surrogate: 1-Chlorooctane 74.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 77.9 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/02/2017  
Reported: 08/08/2017  
Project Name: BILLIKEN 6 FED 1H  
Project Number: 700794.233.01  
Project Location: NOT GIVEN

Sampling Date: 08/02/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: S-5 3' (H702035-24)**

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2017	ND	2.04	102	2.00	1.80	
Toluene*	<0.050	0.050	08/07/2017	ND	1.90	95.1	2.00	1.29	
Ethylbenzene*	<0.050	0.050	08/07/2017	ND	1.99	99.3	2.00	1.78	
Total Xylenes*	<0.150	0.150	08/07/2017	ND	5.89	98.1	6.00	2.12	
Total BTX	<0.300	0.300	08/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/07/2017	ND	448	112	400	0.00	

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	08/04/2017	ND	191	95.4	200	3.04	
DRO >C10-C28	<10.0	10.0	08/04/2017	ND	196	97.8	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	08/04/2017	ND					

Surrogate: 1-Chlorooctane 96.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 98.6 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/02/2017  
Reported: 08/08/2017  
Project Name: BILLIKEN 6 FED 1H  
Project Number: 700794.233.01  
Project Location: NOT GIVEN

Sampling Date: 08/02/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: S-5 4' (H702035-25)**

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2017	ND	2.04	102	2.00	1.80	
Toluene*	<0.050	0.050	08/07/2017	ND	1.90	95.1	2.00	1.29	
Ethylbenzene*	<0.050	0.050	08/07/2017	ND	1.99	99.3	2.00	1.78	
Total Xylenes*	<0.150	0.150	08/07/2017	ND	5.89	98.1	6.00	2.12	
Total BTX	<0.300	0.300	08/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/07/2017	ND	448	112	400	0.00	

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	08/04/2017	ND	191	95.4	200	3.04	
DRO >C10-C28	<10.0	10.0	08/04/2017	ND	196	97.8	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	08/04/2017	ND					

Surrogate: 1-Chlorooctane 89.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 87.4 % 34.7-157

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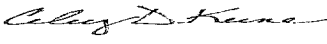


Notes and Definitions

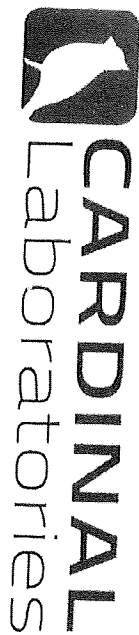
- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-03           The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07           The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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



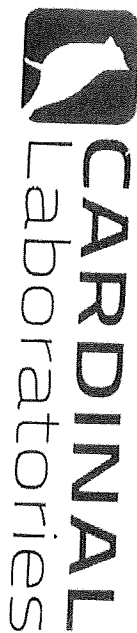


101 East Marland, Hobbs, NM 88240

**(575) 393-2326 FAX (575) 393-2476**

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> TPI/2001/2002 <b>Project Manager:</b> J. Wilson <b>Address:</b> 408 W. Taylor <b>City:</b> Artesia <b>State:</b> NM <b>Zip:</b> 87005 <b>Phone #:</b> 505-251-1234 <b>Fax #:</b> 505-251-1234 <b>Project #:</b> 2001/2002 <b>Project Name:</b> Belknap & Fed 14 <b>Project Location:</b> 700794, 233.01 <b>Sample Name:</b> DADKUS 12-01-01		<b>P.O. #:</b> 7200 <b>Company:</b> DADKUS <b>Attn:</b> DADKUS <b>Address:</b> 700794, 233.01 <b>City:</b> Belknap & Fed 14 <b>State:</b> NM <b>Zip:</b> 87005 <b>Phone #:</b> 505-251-1234 <b>Fax #:</b> 505-251-1234	
<b>Lab I.D.</b> H02035 <b>Sample I.D.</b>		<b>BILL TO</b> <b>ANALYSIS REQUEST</b>	
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<b>Relinquished By:</b> [Signature] <b>Relinquished By:</b> [Signature] <b>Relinquished By:</b> [Signature]		<b>Received By:</b> [Signature] <b>Received By:</b> [Signature] <b>Received By:</b> [Signature]	
<b>Delivered By:</b> (Circle One) 34.82 <b>Sampler - UPS - Bus - Other:</b> 35052		<b>Sample Condition:</b> Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> <b>CHECKED BY:</b> (Initials) 5-0-#75	
<b>Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326</b>		<b>Brought straight to lab from field</b>	

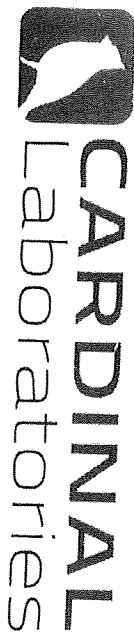


101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>TALON LPE</b> Project Manager: <b>K. Wolska</b>		<b>BILL TO</b>	
Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: <b>760794.235.01</b> Project Owner: _____ Project Name: <b>Bellknap 6 Feed #</b> Project Location: _____ Sampler Name: <b>D. Adams / K. Wolska</b> FOR LAB USE ONLY		P.O. #: _____ Company: <b>THAN</b> Attn: <b>D. Adams</b> Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Lab I.D. _____ Sample I.D. _____ <b>H702035</b>		(G)RAB OR (C)OMP. _____ # CONTAINERS _____ MATRIX: _____ GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____ ACID/BASE: _____ ICE / COOL _____ OTHER: _____	
11 S-3 0' 1' 1 12 S-3 1' 1 13 S-3 2' 1 14 S-3 3' 1 15 S-3 4' 1 16 S-3 0' 1 17 S-4 1' 1 18 S-4 2' 1 19 S-4 3' 1 20 S-4 4' 1		DATE TIME <b>8/2/17</b>	
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Relinquished By: _____ Date: <b>8-2-17</b> Received By: <b>J. Wolska</b> Date: <b>9:50</b> Time: _____ Delivered By: (Circle One) <b>34.82</b> Sampler - UPS - Bus - Other: <b>Consolidated 35.02</b> Sample Condition: Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Checked By: (Initials) <b>V.E. JHS</b> 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: <b>Brought straight to lab from field</b>		Relinquished By: _____ Date: _____ Received By: _____ Date: _____ Time: _____	



101 East Marland, Hobbs. NM 88240

(575) 393-2326 FAX (575) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

<b>Company Name:</b> MCO/LPS		<b>BILL TO</b>	
<b>Project Manager:</b> K. Wilson		<b>P.O. #:</b>	
<b>Address:</b>		<b>ANALYSIS REQUEST</b>	
<b>City:</b>	<b>State:</b>	<b>Company:</b>	
<b>Phone #:</b>	<b>Fax #:</b>	<b>Attn:</b>	
<b>Project #:</b> 700794-235.01	<b>Project Owner:</b>	<b>Address:</b>	
<b>Project Name:</b> Billiken & Feelitt		<b>City:</b>	
<b>Project Location:</b> Bea County		<b>State:</b>	
<b>Sample Name:</b> D. Adams / K. Wilson		<b>Phone #:</b>	
		<b>Fax #:</b>	

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING	DATE	TIME									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:											ICE / COOL
A702035	Z1		6								8/21/17										
	Z2		1																		
	Z3		1																		
	Z4		1																		
	Z5		1																		

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<b>Relinquished By:</b>	<b>Date:</b> 8-2-17	<b>Received By:</b>	<b>Date:</b> 8-2-17
<b>Relinquished By:</b>	<b>Time:</b> 3:50	<b>Received By:</b>	<b>Time:</b>
<b>Delivered By:</b> (Circle One)	<b>34.8%</b>	<b>Sample Condition</b>	<b>CHECKED BY:</b>
<b>Sampler - UPS - Bus - Other:</b>	<b>Cardinal</b>	<b>Cool Intact</b>	<b>(Initials)</b>
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>VP. #75</b>
		<b>Phone Result:</b>	<b>Add'l Phone #:</b>
		<b>Fax Result:</b>	<b>Add'l Fax #:</b>
<b>REMARKS:</b>			
P. 3613			
Brought straight to Lab dumpfile			

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

February 09, 2018

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BILLIKEN CTB

Enclosed are the results of analyses for samples received by the laboratory on 02/09/18 11:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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





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

**Analytical Results For:**

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

Received:	02/09/2018	Sampling Date:	02/09/2018
Reported:	02/09/2018	Sampling Type:	Soil
Project Name:	BILLIKEN CTB	Sampling Condition:	Cool & Intact
Project Number:	700348.418.01	Sample Received By:	Tamara Oldaker
Project Location:	ENTERPRISE-LEA COUNTY		

**Sample ID: S-1 2.5' (H800424-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	02/09/2018	ND	432	108	400	3.77	

**Sample ID: S-2 1.5' (H800424-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/09/2018	ND	432	108	400	3.77	

**Sample ID: S-3 1.5' (H800424-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/09/2018	ND	432	108	400	3.77	

**Sample ID: S-5 1.5' (H800424-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/09/2018	ND	432	108	400	3.77	

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Page 43 of 65  
Received by OCD: 7/6/2022 12:29:32 PM  
Released to Imaging: 9/20/2022 3:23:23 PM



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**Analytical Results For:**

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

Received:	02/09/2018	Sampling Date:	02/09/2018
Reported:	02/09/2018	Sampling Type:	Soil
Project Name:	BILLIKEN CTB	Sampling Condition:	Cool & Intact
Project Number:	700348.418.01	Sample Received By:	Tamara Oldaker
Project Location:	ENTERPRISE-LEA COUNTY		

**Sample ID: S-6 SIDEWALL (H800424-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/09/2018	ND	432	108	400	3.77		

**Sample ID: S-7 SIDEWALL (H800424-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1880	16.0	02/09/2018	ND	432	108	400	3.77		

**Sample ID: S-8 SIDEWALL (H800424-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/09/2018	ND	432	108	400	3.77	

**Sample ID: S-9 SIDEWALL (H800424-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	02/09/2018	ND	432	108	400	3.77	

**Sample ID: S-10 SIDEWALL (H800424-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/09/2018	ND	432	108	400	3.77	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 02/09/2018  
Reported: 02/09/2018  
Project Name: BILLIKEN CTB  
Project Number: 700348.418.01  
Project Location: ENTERPRISE-LEA COUNTY

Sampling Date: 02/09/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S-11 SIDEWALL (H800424-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/09/2018	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

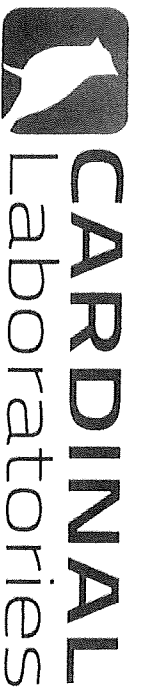
- QM-07      The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND      Analyte NOT DETECTED at or above the reporting limit
- RPD      Relative Percent Difference
- \*\*      Samples not received at proper temperature of 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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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Talan LPI</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																																	
Project Manager: <u>K Williams</u>		P.O. #:																																			
Address: <u>708 W. Texas Ave</u>		Company: <u>Talan LPI</u>																																			
City: <u>Artesia</u>		Attn:																																			
State: <u>NM</u> Zip: <u>88210</u>		Address:																																			
Phone #: <u>575-616-1020</u> Fax #:		City:																																			
Project #: <u>100346-418-01</u> Project Owner: <u>Enterprise</u>		State:																																			
Project Name: <u>Billiken CTR</u>		Zip:																																			
Project Location: <u>hwa County</u>		Phone #:																																			
Sampler Name: <u>J. Lewis</u>		Fax #:																																			
FOR LAB USE ONLY																																					
Lab I.D.		(G)RAB OR (C)OMP.		MATRIX		PRESERV.		SAMPLING																													
Sample I.D.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME													
H800429		1		✓																		2/9/8		0630		✓ Chlorides											
1		5.1		2.5'																																	
2		5.2		1.5'																																	
3		5.3		1.5'																																	
4		5.5		1.5'																																	
5		5.6		side wall																																	
6		5.7		side wall																																	
7		5.8		side wall																																	
8		5.9		side wall																																	
9		5.10		side wall																																	
10		5.11		side wall																																	
<p>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.</p>																																					
Relinquished By: <u>Joe Lewis</u>		Date: <u>2/9/8</u>		Received By: <u>Janet A. Decker</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:																													
Relinquished By: <u>Joe Lewis</u>		Time: <u>11:47</u>		Date: <u>2/9/8</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																													
Delivered By: (Circle One) <u>4.9c</u>		Sample Condition		CHECKED BY: <u>P.H.</u>																																	
Sampler - UPS - Bus - Other: <u>Appointed Site</u>		Cool <input type="checkbox"/> Intact <input type="checkbox"/>																																			
		Yes <input type="checkbox"/> No <input type="checkbox"/>																																			



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

February 16, 2018

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BILLIKEN CTB

Enclosed are the results of analyses for samples received by the laboratory on 02/13/18 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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



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

**Analytical Results For:**

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

Received: 02/13/2018  
Reported: 02/16/2018  
Project Name: BILLIKEN CTB  
Project Number: 700794.233.01  
Project Location: DEVON-LEA COUNTY

Sampling Date: 02/12/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S-12 (H800450-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	02/15/2018	ND	416	104	400	0.00		

**Sample ID: S-13 (H800450-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/15/2018	ND	416	104	400	0.00		

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





### Notes and Definitions

- QM-07      The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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

BILL TO

ANALYSIS REQUEST

Company Name: Talon LPE	P.O. #:
Project Manager: K. Wilson	Company: Talon LPE
Address: 4108 W. Texas Ave	Attn:
City: Artesia	State: NM Zip: 88210
Phone #: 575.746.8768	Fax #: 575.746.8905
Project #: 790494.233.01	Project Owner: Devan
Project Name: Billiken CTB	City:
Project Location: Lea County	State:
Sampler Name: S. Baird	Phone #:
	Zip:
	Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	
H800450	1	G	1			✓				✓	✓		7-12-18	1200	✓
	2	G	1			✓				✓			7-12-18	1205	✓

Chlorides

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Relinquished By:

Date: 7-13-18

Received By:

Phone Result:

Yes No

Add'l Phone #:

Add'l Fax #:

Relinquished By:

Date:

Received By:

Phone Result:

Yes No

Add'l Phone #:

Add'l Fax #:

Delivered By: (Circle One)

4.3i

Sample Condition

CHECKED BY:

Phone Result:

Yes No

Add'l Phone #:

Add'l Fax #:

Sampler - UPS - Bus - Other:

4.3i

Sample Condition

CHECKED BY:

Phone Result:

Yes No

Add'l Phone #:

Add'l Fax #:

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



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

February 20, 2018

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BILLIKEN CTB

Enclosed are the results of analyses for samples received by the laboratory on 02/19/18 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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



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

**Analytical Results For:**

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

Received: 02/19/2018  
 Reported: 02/20/2018  
 Project Name: BILLIKEN CTB  
 Project Number: 700794.233.01  
 Project Location: DEVON-LEA COUNTY

Sampling Date: 02/15/2018  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: S-1 3.0' (H800506-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/20/2018	ND	416	104	400	3.77	

Cardinal Laboratories

\* = Accredited Analyte

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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

Cardinal Laboratories

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]





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

March 06, 2018

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BILLIKEN 6 FEDEERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 03/01/18 9:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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



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

**Analytical Results For:**

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

Received:	03/01/2018	Sampling Date:	02/28/2018
Reported:	03/06/2018	Sampling Type:	Soil
Project Name:	BILLIKEN 6 FEDEERAL #1	Sampling Condition:	Cool & Intact
Project Number:	700794.225.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM 1RP-4761		

**Sample ID: S-1 3.0' BHM (H800605-01)**

BTEx 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2018	ND	2.02	101	2.00	1.95	
Toluene*	<0.050	0.050	03/05/2018	ND	2.03	101	2.00	0.968	
Ethylbenzene*	<0.050	0.050	03/05/2018	ND	2.06	103	2.00	0.549	
Total Xylenes*	<0.150	0.150	03/05/2018	ND	6.00	100	6.00	0.589	
Total BTEX	<0.300	0.300	03/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 116 % 72-148

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	03/02/2018	ND	211	105	200	5.86	
DRO >C10-C28*	<10.0	10.0	03/02/2018	ND	206	103	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	03/02/2018	ND					

Surrogate: 1-Chlorooctane 98.0 % 41-142

Surrogate: 1-Chlorooctadecane 88.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/01/2018  
 Reported: 03/06/2018  
 Project Name: BILLIKEN 6 FEDEERAL #1  
 Project Number: 700794.225.01  
 Project Location: DEVON - LEA CO NM 1RP-4761

Sampling Date: 02/28/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S-3 1.5' BHM (H800605-02)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2018	ND	2.02	101	2.00	1.95	
Toluene*	<0.050	0.050	03/05/2018	ND	2.03	101	2.00	0.968	
Ethylbenzene*	<0.050	0.050	03/05/2018	ND	2.06	103	2.00	0.549	
Total Xylenes*	<0.150	0.150	03/05/2018	ND	6.00	100	6.00	0.589	
Total BTEx	<0.300	0.300	03/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 117 % 72-148

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	03/02/2018	ND	211	105	200	5.86	
DRO >C10-C28*	<10.0	10.0	03/02/2018	ND	206	103	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	03/02/2018	ND					

Surrogate: 1-Chlorooctane 91.7 % 41-142

Surrogate: 1-Chlorooctadecane 83.1 % 37.6-147

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/01/2018  
 Reported: 03/06/2018  
 Project Name: BILLIKEN 6 FEDEERAL #1  
 Project Number: 700794.225.01  
 Project Location: DEVON - LEA CO NM 1RP-4761

Sampling Date: 02/28/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S-8 SW SIDEWALL (H800605-03)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2018	ND	2.02	101	2.00	1.95	
Toluene*	<0.050	0.050	03/05/2018	ND	2.03	101	2.00	0.968	
Ethylbenzene*	<0.050	0.050	03/05/2018	ND	2.06	103	2.00	0.549	
Total Xylenes*	<0.150	0.150	03/05/2018	ND	6.00	100	6.00	0.589	
Total BTX	<0.300	0.300	03/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 119 % 72-148

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	03/02/2018	ND	211	105	200	5.86	
DRO >C10-C28*	<10.0	10.0	03/02/2018	ND	206	103	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	03/02/2018	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 89.8 % 37.6-147

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**Analytical Results For:**

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

Received: 03/01/2018  
 Reported: 03/06/2018  
 Project Name: BILLIKEN 6 FEDEERAL #1  
 Project Number: 700794.225.01  
 Project Location: DEVON - LEA CO NM 1RP-4761

Sampling Date: 02/28/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S-11 N. SIDEWALL (H800605-04)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2018	ND	2.02	101	2.00	1.95	
Toluene*	<0.050	0.050	03/05/2018	ND	2.03	101	2.00	0.968	
Ethylbenzene*	<0.050	0.050	03/05/2018	ND	2.06	103	2.00	0.549	
Total Xylenes*	<0.150	0.150	03/05/2018	ND	6.00	100	6.00	0.589	
Total BTEX	<0.300	0.300	03/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 120 % 72-148

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	03/02/2018	ND	211	105	200	5.86	
DRO >C10-C28*	<10.0	10.0	03/02/2018	ND	206	103	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	03/02/2018	ND					

Surrogate: 1-Chlorooctane 96.2 % 41-142

Surrogate: 1-Chlorooctadecane 84.8 % 37.6-147

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**Analytical Results For:**

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

Received: 03/01/2018  
 Reported: 03/06/2018  
 Project Name: BILLIKEN 6 FEDEERAL #1  
 Project Number: 700794.225.01  
 Project Location: DEVON - LEA CO NM 1RP-4761

Sampling Date: 02/28/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S-12 W. SIDEWALL SW CORNER (H800605-05)**

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2018	ND	2.02	101	2.00	1.95	
Toluene*	<0.050	0.050	03/05/2018	ND	2.03	101	2.00	0.968	
Ethylbenzene*	<0.050	0.050	03/05/2018	ND	2.06	103	2.00	0.549	
Total Xylenes*	<0.150	0.150	03/05/2018	ND	6.00	100	6.00	0.589	
Total BTEX	<0.300	0.300	03/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 117 % 72-148

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	03/02/2018	ND	211	105	200	5.86	
DRO >C10-C28*	<10.0	10.0	03/02/2018	ND	206	103	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	03/02/2018	ND					

Surrogate: 1-Chlorooctane 94.7 % 41-142

Surrogate: 1-Chlorooctadecane 82.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 03/01/2018  
 Reported: 03/06/2018  
 Project Name: BILLIKEN 6 FEDEERAL #1  
 Project Number: 700794.225.01  
 Project Location: DEVON - LEA CO NM 1RP-4761

Sampling Date: 02/28/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S-13 E. SIDEWALL SE CORNER (H800605-06)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2018	ND	2.02	101	2.00	1.95	
Toluene*	<0.050	0.050	03/05/2018	ND	2.03	101	2.00	0.968	
Ethylbenzene*	<0.050	0.050	03/05/2018	ND	2.06	103	2.00	0.549	
Total Xylenes*	<0.150	0.150	03/05/2018	ND	6.00	100	6.00	0.589	
Total BTX	<0.300	0.300	03/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 118 % 72-148

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	03/02/2018	ND	211	105	200	5.86	
DRO >C10-C28*	<10.0	10.0	03/02/2018	ND	206	103	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	03/02/2018	ND					

Surrogate: 1-Chlorooctane 95.2 % 41-142

Surrogate: 1-Chlorooctadecane 83.5 % 37.6-147

**Sample ID: S-14 E. SIDEWALL MIDDLE (H800605-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/05/2018	ND	432	108	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/01/2018  
 Reported: 03/06/2018  
 Project Name: BILLIKEN 6 FEDEERAL #1  
 Project Number: 700794.225.01  
 Project Location: DEVON - LEA CO NM 1RP-4761

Sampling Date: 02/28/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S-15 SE. SIDEWALL (H800605-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/05/2018	ND	400	100	400	0.00	QM-07, QR-03	

**Sample ID: S-16 W. SIDEWALL MIDDLE (H800605-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	03/05/2018	ND	400	100	400	0.00		

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Notes and Definitions

- QR-03      The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07      The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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*

Celey D. Keene, Lab Director/Quality Manager

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

Page 1 of 1

<b>Company Name:</b> Talon/LPE		<b>P.O. #:</b>
<b>Project Manager:</b> Stimuly M. Wilson		<b>Company:</b> Talon/LPE
<b>Address:</b> 408 W. Texas Ave.		<b>Attn:</b>
<b>City:</b> Artesia	<b>State:</b> NM	<b>Zip:</b> 88210
<b>Phone #:</b> 575-746-8768	<b>Fax #:</b> 575-746-8905	
<b>Project #:</b> 700794.235.01	<b>Project Owner:</b> Deben	
<b>Project Name:</b> Biberick & Bakerel #1	<b>City:</b>	<b>State:</b>
<b>Project Location:</b> Lee City	<b>Phone #:</b>	<b>Zip:</b>
<b>Sample Name:</b> Kim Wilson	<b>Fax #:</b>	

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME		
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:			ICE/Cool.	OTHER:
HSC01605	3-1 .30' 3mm	G	1	/								2/28/18	7:50	BTEX
	3-3 1.5' 3mm	G	1	/									8:02	TPH extended
	3-8 SW side wall	G	1	/									7:25	Chlorides
	3-11 N side wall	G	1	/									7:48	
	3-12 E side wall SE corner	G	1	/									7:56	
	3-13 E side wall SE corner	G	1	/									7:33	
	3-14 E side wall middle	G	1	/									7:38	
	3-15 SE side wall	G	1	/									7:28	
	3-16 W side wall middle	G	1	/									7:45	

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**Relinquished By:** \_\_\_\_\_ **Date:** 2/28/18 **Received By:** \_\_\_\_\_ **Date:** 3-1-18

**Delivered By:** \_\_\_\_\_ **Time:** 3:30 **Sample Condition:** \_\_\_\_\_ **CHECKED BY:** \_\_\_\_\_

**Sampler - UPS - Bus - Other:** \_\_\_\_\_ **Comments:** 3.35 **Geol. Impact:** Yes ☒ No ☐ **T.S. #15**

**REMARKS:**

**Photo Result:** ☐ Yes ☐ No **Add'l Phone #:** \_\_\_\_\_

**Fax Result:** ☐ Yes ☐ No **Add'l Fax #:** \_\_\_\_\_

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS

Action 123150

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 123150
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	9/20/2022