

Bratcher, Mike, EMNRD

From: Michael Stubblefield [mstubblefield@talonlpe.com]
Sent: Tuesday, May 22, 2012 11:09 AM
To: Bratcher, Mike, EMNRD
Subject: FW: WEST SHUGART 31 FEDERAL COM NO 3H
Attachments: H201093 TALON.pdf; 012.JPG

Dear Mr. Bratcher,

Talon/LPE is sending the analytical results for the soil samples collected on 5/15/2012 at the Cimarex Energy Company West Shugart 31 Federal Com. No.3H tank battery release. A work plan will be constructed based upon the analytical results. Talon/LPE has attached photos taken during the soil sampling and treatment using micro blaze at the West Shugart 31 Federal tank battery release. The site photo for the soil sample location labeled S-1, which was collected from the impacted area located near the heater treater, shows dry soil at less than 1" under the surface of the release. If further information is requested 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



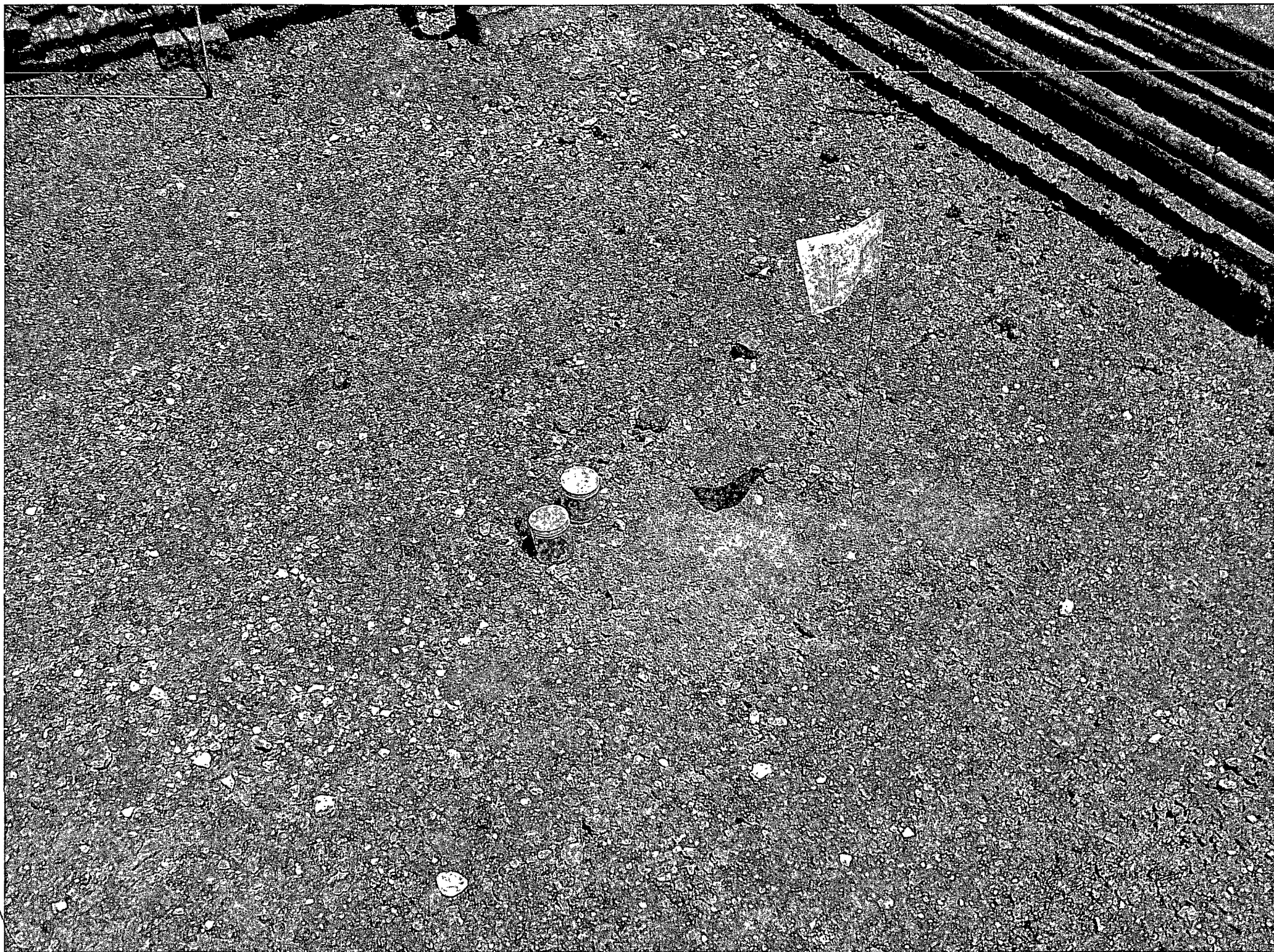
Better Business Bureau Torch Award for Marketplace Ethics: 2010 Winner, 2009 Finalist
Staples Foundation for Learning Hall of Fame Recipient: 2010
ICIC and Business Week- Top 100: 2010, 2009, 2008, 2007, 2006
Inc. 500/5000: 2011, 2010, 2009, 2008, 2007

From: Celey Keene [<mailto:celey.keene@cardinallabsnm.com>]
Sent: Friday, May 18, 2012 3:26 PM
To: Michael Stubblefield; David Adkins; Kimberly M. Wilson
Subject: WEST SHUGART 31 FEDERAL COM NO 3H

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

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

May 18, 2012

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WEST SHUGART 31 FEDERAL COM NO. 3H

Enclosed are the results of analyses for samples received by the laboratory on 05/16/12 10:10.

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.

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 | 05/16/2012 | Sampling Date: | 05/15/2012 |
| Reported. | 05/18/2012 | Sampling Type: | Soil |
| Project Name | WEST SHUGART 31 FEDERAL COM NO. 2 | Sampling Condition: | Cool & Intact |
| Project Number: | 701162.018.01 | Sample Received By | Jodi Henson |
| Project Location | SEC.31-T18S-R31E | | |

Sample ID: S-1 0' BGS BERMED AREA (H201093-01)

| BTEX 8021B | | | mg/kg | | | | | Analyzed By: ZZZ | | S-04 | |
|----------------|--------|-----------------|------------|--------------|------|------------|---------------|------------------|-----------|------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | | |
| Benzene* | <0.050 | 0.050 | 05/17/2012 | ND | 2.14 | 107 | 2.00 | 4.14 | | | |
| Toluene* | 0.430 | 0.050 | 05/17/2012 | ND | 2.24 | 112 | 2.00 | 4.57 | | | |
| Ethylbenzene* | 2.79 | 0.050 | 05/17/2012 | ND | 2.22 | 111 | 2.00 | 4.16 | | | |
| Total Xylenes* | 7.31 | 0.150 | 05/17/2012 | ND | 6.86 | 114 | 6.00 | 4.40 | | | |

Surrogate 4-Bromofluorobenzene (PIL) 149 % 64.4-134

| Chloride, SM4500Cl-B | | | mg/kg | | | | | Analyzed By: HM | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|-----------------|-----------|--|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | | |
| Chloride | 656 | 16.0 | 05/17/2012 | ND | 400 | 100 | 400 | 0.00 | | | |

| TPH 8015M | | | mg/kg | | | | | Analyzed By: MS | | S-06 | |
|--------------|--------|-----------------|------------|--------------|-----|------------|---------------|-----------------|-----------|------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | | |
| GRO C6-C10 | 294 | 50.0 | 05/16/2012 | ND | 205 | 103 | 200 | 5.10 | | | |
| DRO >C10-C28 | 14000 | 50.0 | 05/16/2012 | ND | 222 | 111 | 200 | 26.6 | | | |

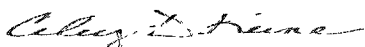
Surrogate 1-Chlorooctane 207 % 55.5-154

Surrogate 1-Chlorooctadecane 1060 % 57.6-158

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

| | | | |
|------------------|-----------------------------------|---------------------|---------------|
| Received: | 05/16/2012 | Sampling Date: | 05/15/2012 |
| Reported: | 05/18/2012 | Sampling Type: | Soil |
| Project Name: | WEST SHUGART 31 FEDERAL COM NO. 1 | Sampling Condition: | Cool & Intact |
| Project Number | 701162.018.01 | Sample Received By | Jodi Henson |
| Project Location | SEC.31-T18S-R31E | | |

Sample ID: S-1 .5' BGS BERMED AREA (H201093-02)

| BTEX 8021B | | mg/kg | | Analyzed By: ZZZ | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/17/2012 | ND | 2.14 | 107 | 2.00 | 4.14 | |
| Toluene* | <0.050 | 0.050 | 05/17/2012 | ND | 2.24 | 112 | 2.00 | 4.57 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/17/2012 | ND | 2.22 | 111 | 2.00 | 4.16 | |
| Total Xylenes* | <0.150 | 0.150 | 05/17/2012 | ND | 6.86 | 114 | 6.00 | 4.40 | |

Surrogate 4-Bromofluorobenzene (PIE) 114 % 64.4-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 128 | 16.0 | 05/17/2012 | ND | 400 | 100 | 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 | 05/16/2012 | ND | 205 | 103 | 200 | 5.10 | |
| DRO >C10-C28 | 33.7 | 10.0 | 05/16/2012 | ND | 222 | 111 | 200 | 26.6 | |


Surrogate 1-Chlorooctane 93.8 % 55.5-154

Surrogate 1-Chlorooctadecane 101 % 57.6-158

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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 | 05/16/2012 | Sampling Date | 05/15/2012 |
| Reported: | 05/18/2012 | Sampling Type | Soil |
| Project Name: | WEST SHUGART 31 FEDERAL COM NO. 1 | Sampling Condition | Cool & Intact |
| Project Number: | 701162.018.01 | Sample Received By: | Jodi Henson |
| Project Location: | SEC.31-T18S-R31E | | |

Sample ID: S-1 1' BGS BERMED AREA (H201093-03)

| BTX 8021B | | mg/kg | | Analyzed By: ZZZ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 05/17/2012 | ND | 2.14 | 107 | 2.00 | 4.14 | | |
| Toluene* | <0.050 | 0.050 | 05/17/2012 | ND | 2.24 | 112 | 2.00 | 4.57 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/17/2012 | ND | 2.22 | 111 | 2.00 | 4.16 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/17/2012 | ND | 6.86 | 114 | 6.00 | 4.40 | | |

Surrogate 4-Bromofluorobenzene (PIE) 118 % 64.4-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 704 | 16.0 | 05/17/2012 | ND | 400 | 100 | 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 | 05/16/2012 | ND | 205 | 103 | 200 | 5.10 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 05/16/2012 | ND | 222 | 111 | 200 | 26.6 | | |


Surrogate 1-Chlorooctane 91.5 % 55.5-154

Surrogate 1-Chlorooctadecane 99.7 % 57.6-158

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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: | 05/16/2012 | Sampling Date: | 05/15/2012 |
| Reported: | 05/18/2012 | Sampling Type: | Soil |
| Project Name: | WEST SHUGART 31 FEDERAL COM NO. 1 | Sampling Condition: | Cool & Intact |
| Project Number: | 701162.018.01 | Sample Received By: | Jodi Henson |
| Project Location: | SEC.31-T18S-R31E | | |

Sample ID: S-2 0' BGS PASTURE (H201093-04)

| BTX 8021B | | mg/kg | | Analyzed By: ZZZ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 05/18/2012 | ND | 2.26 | 113 | 2.00 | 0.638 | | |
| Toluene* | <0.050 | 0.050 | 05/18/2012 | ND | 2.39 | 120 | 2.00 | 2.28 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/18/2012 | ND | 2.40 | 120 | 2.00 | 2.75 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/18/2012 | ND | 7.46 | 124 | 6.00 | 3.79 | | |

Surrogate 4-Bromofluorobenzene (PIC) 113 % 64.4-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 448 | 16.0 | 05/17/2012 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
| | | | | | | | | | S-04 |

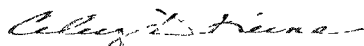
Surrogate 1-Chlorooctane 90.8 % 55.5-154

Surrogate 1-Chlorooctadecane 514 % 57.6-158

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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: | 05/16/2012 | Sampling Date | 05/15/2012 |
| Reported: | 05/18/2012 | Sampling Type | Soil |
| Project Name: | WEST SHUGART 31 FEDERAL COM NO. 1 | Sampling Condition: | Cool & Intact |
| Project Number: | 701162.018.01 | Sample Received By: | Jodi Henson |
| Project Location: | SEC.31-T18S-R31E | | |

Sample ID: S-2 .5' BGS PASTURE (H201093-05)

| BTEx 8021B | | mg/kg | | Analyzed By: ZZZ | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/18/2012 | ND | 2.26 | 113 | 2.00 | 0.638 | |
| Toluene* | <0.050 | 0.050 | 05/18/2012 | ND | 2.39 | 120 | 2.00 | 2.28 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/18/2012 | ND | 2.40 | 120 | 2.00 | 2.75 | |
| Total Xylenes* | <0.150 | 0.150 | 05/18/2012 | ND | 7.46 | 124 | 6.00 | 3.79 | |

Surrogate 4-Bromofluorobenzene (PIC) 113 % 64.4-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 32.0 | 16.0 | 05/17/2012 | ND | 400 | 100 | 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 | 05/16/2012 | ND | 205 | 103 | 200 | 5.10 | |
| DRO >C10-C28 | 32.6 | 10.0 | 05/16/2012 | ND | 222 | 111 | 200 | 26.6 | |

Surrogate 1-Chlorooctane 83.8 % 55.5-154

Surrogate 1-Chlorooctadecane 94.4 % 57.6-158

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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 | 05/16/2012 | Sampling Date. | 05/15/2012 |
| Reported | 05/18/2012 | Sampling Type: | Soil |
| Project Name | WEST SHUGART 31 FEDERAL COM NO. 1 | Sampling Condition. | Cool & Intact |
| Project Number. | 701162.018.01 | Sample Received By: | Jodi Henson |
| Project Location | SEC.31-T18S-R31E | | |

Sample ID: S-2 1' BGS PASTURE (H201093-06)

| BTEX 8021B | | mg/kg | | Analyzed By: ZZZ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 05/18/2012 | ND | 2.26 | 113 | 2.00 | 0.638 | | |
| Toluene* | <0.050 | 0.050 | 05/18/2012 | ND | 2.39 | 120 | 2.00 | 2.28 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/18/2012 | ND | 2.40 | 120 | 2.00 | 2.75 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/18/2012 | ND | 7.46 | 124 | 6.00 | 3.79 | | |

Surrogate 4-Bromofluorobenzene (PIC) 114 % 64.4-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 32.0 | 16.0 | 05/17/2012 | ND | 400 | 100 | 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 | 05/17/2012 | ND | 194 | 97.2 | 200 | 3.47 | | |
| DRO >C10-C28 | 79.7 | 10.0 | 05/17/2012 | ND | 184 | 92.1 | 200 | 7.51 | | |

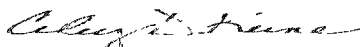
Surrogate 1-Chlorooctane 91.6 % 55.5-154

Surrogate 1-Chlorooctadecane 113 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

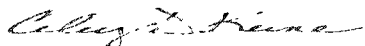
Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect
- 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

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