

APPENDIX III
LABORATORY RESULTS

July 27, 2015

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: HACKBERRY 16 SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 07/20/15 15:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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/ga/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
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 07/20/2015
Reported: 07/27/2015
Project Name: HACKBERRY 16 SWD #1
Project Number: 70079416001
Project Location: SEC 16. T19S ,R31E

Sampling Date: 07/17/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 0' (H501874-01)

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	07/23/2015	ND	1.91	95.3	2.00	2.65	
Toluene*	<0.050	0.050	07/23/2015	ND	1.90	95.2	2.00	2.53	
Ethylbenzene*	<0.050	0.050	07/23/2015	ND	2.08	104	2.00	3.10	
Total Xylenes*	<0.150	0.150	07/23/2015	ND	5.38	89.7	6.00	2.66	
Total BTX	<0.300	0.300	07/23/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 113 % 85.6-137

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7360	16.0	07/24/2015	ND	400	100	400	7.69	

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	07/22/2015	ND	200	99.8	200	1.21	
DRO >C10-C28	<10.0	10.0	07/22/2015	ND	196	98.0	200	8.77	

Surrogate: 1-Chlorooctane 103 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.2 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 07/20/2015
 Reported: 07/27/2015
 Project Name: HACKBERRY 16 SWD #1
 Project Number: 70079416001
 Project Location: SEC 16. T19S ,R31E

 Sampling Date: 07/17/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 1' (H501874-02)

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	07/23/2015	ND	1.91	95.3	2.00	2.65	
Toluene*	<0.050	0.050	07/23/2015	ND	1.90	95.2	2.00	2.53	
Ethylbenzene*	<0.050	0.050	07/23/2015	ND	2.08	104	2.00	3.10	
Total Xylenes*	<0.150	0.150	07/23/2015	ND	5.38	89.7	6.00	2.66	
Total BTX	<0.300	0.300	07/23/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	07/24/2015	ND	400	100	400	7.69	

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	07/22/2015	ND	203	102	200	1.07	
DRO >C10-C28	<10.0	10.0	07/22/2015	ND	214	107	200	5.72	

Surrogate: 1-Chlorooctane 97.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 83.5 % 52.1-176

Sample ID: S-1 2' (H501874-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/24/2015	ND	400	100	400	7.69	

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/20/2015	Sampling Date:	07/17/2015
Reported:	07/27/2015	Sampling Type:	Soil
Project Name:	HACKBERRY 16 SWD #1	Sampling Condition:	Cool & Intact
Project Number:	70079416001	Sample Received By:	Jodi Henson
Project Location:	SEC 16. T19S ,R31E		

Sample ID: S-1 3' (H501874-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	07/24/2015	ND	400	100	400	7.69	

Sample ID: S-1 4' (H501874-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/24/2015	ND	400	100	400	7.69	

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/20/2015
Reported: 07/27/2015
Project Name: HACKBERRY 16 SWD #1
Project Number: 70079416001
Project Location: SEC 16. T19S ,R31E

Sampling Date: 07/17/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 0' (H501874-06)

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	07/23/2015	ND	1.91	95.3	2.00	2.65	
Toluene*	<0.050	0.050	07/23/2015	ND	1.90	95.2	2.00	2.53	
Ethylbenzene*	<0.050	0.050	07/23/2015	ND	2.08	104	2.00	3.10	
Total Xylenes*	<0.150	0.150	07/23/2015	ND	5.38	89.7	6.00	2.66	
Total BTEx	<0.300	0.300	07/23/2015	ND					

Surrogate: 4-Bromofluorobenzene (PII) 116 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8660	16.0	07/24/2015	ND	400	100	400	7.69		

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	07/22/2015	ND	203	102	200	1.07	
DRO >C10-C28	<10.0	10.0	07/22/2015	ND	214	107	200	5.72	

Surrogate: 1-Chlorooctane 93.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 84.2 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 07/20/2015
 Reported: 07/27/2015
 Project Name: HACKBERRY 16 SWD #1
 Project Number: 70079416001
 Project Location: SEC 16. T19S ,R31E

 Sampling Date: 07/17/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-2 1' (H501874-07)

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	07/23/2015	ND	1.91	95.3	2.00	2.65	
Toluene*	<0.050	0.050	07/23/2015	ND	1.90	95.2	2.00	2.53	
Ethylbenzene*	<0.050	0.050	07/23/2015	ND	2.08	104	2.00	3.10	
Total Xylenes*	<0.150	0.150	07/23/2015	ND	5.38	89.7	6.00	2.66	
Total BTEX	<0.300	0.300	07/23/2015	ND					

Surrogate: 4-Bromofluorobenzene (PII) 113 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	07/24/2015	ND	400	100	400	7.69	

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	07/22/2015	ND	203	102	200	1.07	
DRO >C10-C28	<10.0	10.0	07/22/2015	ND	214	107	200	5.72	

Surrogate: 1-Chlorooctane 104 % 47.2-157

Surrogate: 1-Chlorooctadecane 109 % 52.1-176

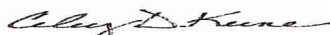
Sample ID: S-2 2' (H501874-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8260	16.0	07/24/2015	ND	400	100	400	7.69	

Cardinal Laboratories

* = Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/20/2015	Sampling Date:	07/17/2015
Reported:	07/27/2015	Sampling Type:	Soil
Project Name:	HACKBERRY 16 SWD #1	Sampling Condition:	Cool & Intact
Project Number:	70079416001	Sample Received By:	Jodi Henson
Project Location:	SEC 16. T19S ,R31E		

Sample ID: S-2 3' (H501874-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	07/24/2015	ND	400	100	400	7.69	

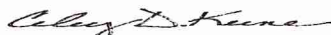
Sample ID: S-2 4' (H501874-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	07/24/2015	ND	400	100	400	7.69	

Cardinal Laboratories

* = Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/20/2015	Sampling Date:	07/17/2015
Reported:	07/27/2015	Sampling Type:	Soil
Project Name:	HACKBERRY 16 SWD #1	Sampling Condition:	Cool & Intact
Project Number:	70079416001	Sample Received By:	Jodi Henson
Project Location:	SEC 16. T19S ,R31E		

Sample ID: S-3 0' (H501874-11)

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	07/23/2015	ND	1.91	95.3	2.00	2.65	
Toluene*	<0.050	0.050	07/23/2015	ND	1.90	95.2	2.00	2.53	
Ethylbenzene*	<0.050	0.050	07/23/2015	ND	2.08	104	2.00	3.10	
Total Xylenes*	<0.150	0.150	07/23/2015	ND	5.38	89.7	6.00	2.66	
Total BTX	<0.300	0.300	07/23/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12300	16.0	07/24/2015	ND	400	100	400	7.69	

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	07/22/2015	ND	203	102	200	1.07	
DRO >C10-C28	<10.0	10.0	07/22/2015	ND	214	107	200	5.72	

Surrogate: 1-Chlorooctane 98.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 95.8 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/20/2015
Reported: 07/27/2015
Project Name: HACKBERRY 16 SWD #1
Project Number: 70079416001
Project Location: SEC 16. T19S ,R31E

Sampling Date: 07/17/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 1' (H501874-12)

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	07/23/2015	ND	1.91	95.3	2.00	2.65	
Toluene*	<0.050	0.050	07/23/2015	ND	1.90	95.2	2.00	2.53	
Ethylbenzene*	<0.050	0.050	07/23/2015	ND	2.08	104	2.00	3.10	
Total Xylenes*	<0.150	0.150	07/23/2015	ND	5.38	89.7	6.00	2.66	
Total BTX	<0.300	0.300	07/23/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9730	16.0	07/24/2015	ND	400	100	400	7.69	

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	07/22/2015	ND	203	102	200	1.07	
DRO >C10-C28	<10.0	10.0	07/22/2015	ND	214	107	200	5.72	

Surrogate: 1-Chlorooctane 98.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.2 % 52.1-176

Sample ID: S-3 2' (H501874-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12900	16.0	07/24/2015	ND	400	100	400	7.69	

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/20/2015	Sampling Date:	07/17/2015
Reported:	07/27/2015	Sampling Type:	Soil
Project Name:	HACKBERRY 16 SWD #1	Sampling Condition:	Cool & Intact
Project Number:	70079416001	Sample Received By:	Jodi Henson
Project Location:	SEC 16. T19S ,R31E		

Sample ID: S-3 3' (H501874-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12500	16.0	07/24/2015	ND	400	100	400	7.69	

Sample ID: S-3 4' (H501874-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9330	16.0	07/24/2015	ND	400	100	400	7.69	

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/20/2015	Sampling Date:	07/17/2015
Reported:	07/27/2015	Sampling Type:	Soil
Project Name:	HACKBERRY 16 SWD #1	Sampling Condition:	Cool & Intact
Project Number:	70079416001	Sample Received By:	Jodi Henson
Project Location:	SEC 16. T19S ,R31E		

Sample ID: S-4 0' (H501874-16)

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	07/23/2015	ND	1.91	95.3	2.00	2.65	
Toluene*	<0.050	0.050	07/23/2015	ND	1.90	95.2	2.00	2.53	
Ethylbenzene*	<0.050	0.050	07/23/2015	ND	2.08	104	2.00	3.10	
Total Xylenes*	<0.150	0.150	07/23/2015	ND	5.38	89.7	6.00	2.66	
Total BTEX	<0.300	0.300	07/23/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6660	16.0	07/24/2015	ND	400	100	400	7.69	

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	07/22/2015	ND	203	102	200	1.07	
DRO >C10-C28	<10.0	10.0	07/22/2015	ND	214	107	200	5.72	

Surrogate: 1-Chlorooctane 96.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 87.2 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/20/2015	Sampling Date:	07/17/2015
Reported:	07/27/2015	Sampling Type:	Soil
Project Name:	HACKBERRY 16 SWD #1	Sampling Condition:	Cool & Intact
Project Number:	70079416001	Sample Received By:	Jodi Henson
Project Location:	SEC 16. T19S ,R31E		

Sample ID: S-4 1' (H501874-17)

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	07/23/2015	ND	1.91	95.3	2.00	2.65	
Toluene*	<0.050	0.050	07/23/2015	ND	1.90	95.2	2.00	2.53	
Ethylbenzene*	<0.050	0.050	07/23/2015	ND	2.08	104	2.00	3.10	
Total Xylenes*	<0.150	0.150	07/23/2015	ND	5.38	89.7	6.00	2.66	
Total BTEX	<0.300	0.300	07/23/2015	ND					

Surrogate: 4-Bromofluorobenzene (PII) 109 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7860	16.0	07/24/2015	ND	400	100	400	7.69	

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	07/22/2015	ND	203	102	200	1.07	
DRO >C10-C28	<10.0	10.0	07/22/2015	ND	214	107	200	5.72	

Surrogate: 1-Chlorooctane 96.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 97.2 % 52.1-176

Sample ID: S-4 2' (H501874-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	07/24/2015	ND	400	100	400	7.69	

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/20/2015	Sampling Date:	07/17/2015
Reported:	07/27/2015	Sampling Type:	Soil
Project Name:	HACKBERRY 16 SWD #1	Sampling Condition:	Cool & Intact
Project Number:	70079416001	Sample Received By:	Jodi Henson
Project Location:	SEC 16. T19S ,R31E		

Sample ID: S-4 3' (H501874-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/22/2015	ND	432	108	400	7.69	

Sample ID: S-4 4' (H501874-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/22/2015	ND	432	108	400	7.69	

Cardinal Laboratories

*—Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/20/2015	Sampling Date:	07/17/2015
Reported:	07/27/2015	Sampling Type:	Soil
Project Name:	HACKBERRY 16 SWD #1	Sampling Condition:	Cool & Intact
Project Number:	70079416001	Sample Received By:	Jodi Henson
Project Location:	SEC 16. T19S ,R31E		

Sample ID: S-5 0' (H501874-21)

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	07/23/2015	ND	1.91	95.3	2.00	2.65	
Toluene*	<0.050	0.050	07/23/2015	ND	1.90	95.2	2.00	2.53	
Ethylbenzene*	<0.050	0.050	07/23/2015	ND	2.08	104	2.00	3.10	
Total Xylenes*	<0.150	0.150	07/23/2015	ND	5.38	89.7	6.00	2.66	
Total BTEx	<0.300	0.300	07/23/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4360	16.0	07/22/2015	ND	432	108	400	7.69	

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	07/22/2015	ND	203	102	200	1.07	
DRO >C10-C28	<10.0	10.0	07/22/2015	ND	214	107	200	5.72	

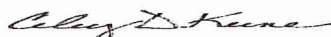
Surrogate: 1-Chlorooctane 98.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 87.6 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/20/2015
Reported: 07/27/2015
Project Name: HACKBERRY 16 SWD #1
Project Number: 70079416001
Project Location: SEC 16. T19S ,R31E

Sampling Date: 07/17/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-5 1' (H501874-22)

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	07/23/2015	ND	1.92	95.9	2.00	0.776	
Toluene*	<0.050	0.050	07/23/2015	ND	1.92	96.2	2.00	1.40	
Ethylbenzene*	<0.050	0.050	07/23/2015	ND	2.05	103	2.00	2.64	
Total Xylenes*	<0.150	0.150	07/23/2015	ND	5.38	89.6	6.00	2.81	
Total BTX	<0.300	0.300	07/23/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	07/22/2015	ND	432	108	400	7.69	

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	07/22/2015	ND	203	102	200	1.07	
DRO >C10-C28	<10.0	10.0	07/22/2015	ND	214	107	200	5.72	

Surrogate: 1-Chlorooctane 94.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 83.8 % 52.1-176

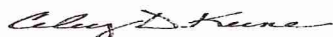
Sample ID: S-5 2' (H501874-23)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/22/2015	ND	432	108	400	7.69	

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 07/20/2015
 Reported: 07/27/2015
 Project Name: HACKBERRY 16 SWD #1
 Project Number: 70079416001
 Project Location: SEC 16, T19S ,R31E

 Sampling Date: 07/17/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-5 3' (H501874-24)

Chloride, SM4500Cl-B			mg/kg Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/22/2015	ND	432	108	400	7.69	

Sample ID: S-6 0' (H501874-25)

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	07/23/2015	ND	1.92	95.9	2.00	0.776	
Toluene*	<0.050	0.050	07/23/2015	ND	1.92	96.2	2.00	1.40	
Ethylbenzene*	<0.050	0.050	07/23/2015	ND	2.05	103	2.00	2.64	
Total Xylenes*	<0.150	0.150	07/23/2015	ND	5.38	89.6	6.00	2.81	
Total BTEX	<0.300	0.300	07/23/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 85.6-137

Chloride, SM4500Cl-B			mg/kg Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	07/22/2015	ND	432	108	400	7.69	

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	07/23/2015	ND	203	102	200	1.07	
DRO >C10-C28	<10.0	10.0	07/23/2015	ND	214	107	200	5.72	

Surrogate: 1-Chlorooctane 97.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 93.0 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/20/2015
Reported: 07/27/2015
Project Name: HACKBERRY 16 SWD #1
Project Number: 70079416001
Project Location: SEC 16. T19S ,R31E

Sampling Date: 07/17/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-6 1' (H501874-26)

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	07/23/2015	ND	1.92	95.9	2.00	0.776	
Toluene*	<0.050	0.050	07/23/2015	ND	1.92	96.2	2.00	1.40	
Ethylbenzene*	<0.050	0.050	07/23/2015	ND	2.05	103	2.00	2.64	
Total Xylenes*	<0.150	0.150	07/23/2015	ND	5.38	89.6	6.00	2.81	
Total BTEX	<0.300	0.300	07/23/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	07/22/2015	ND	432	108	400	7.69	

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	07/23/2015	ND	203	102	200	1.07	
DRO >C10-C28	<10.0	10.0	07/23/2015	ND	214	107	200	5.72	

Surrogate: 1-Chlorooctane 98.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 85.1 % 52.1-176

Sample ID: S-6 2' (H501874-27)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7680	16.0	07/22/2015	ND	432	108	400	7.69	

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/20/2015	Sampling Date:	07/17/2015
Reported:	07/27/2015	Sampling Type:	Soil
Project Name:	HACKBERRY 16 SWD #1	Sampling Condition:	Cool & Intact
Project Number:	70079416001	Sample Received By:	Jodi Henson
Project Location:	SEC 16. T19S ,R31E		

Sample ID: S-6 3' (H501874-28)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8960	16.0	07/22/2015	ND	432	108	400	7.69	

Sample ID: S-6 4' (H501874-29)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1620	16.0	07/22/2015	ND	432	108	400	7.69	

Cardinal Laboratories

*==Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/20/2015	Sampling Date:	07/17/2015
Reported:	07/27/2015	Sampling Type:	Soil
Project Name:	HACKBERRY 16 SWD #1	Sampling Condition:	Cool & Intact
Project Number:	70079416001	Sample Received By:	Jodi Henson
Project Location:	SEC 16. T19S ,R31E		

Sample ID: S-7 0' (H501874-30)

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	07/23/2015	ND	1.92	95.9	2.00	0.776	
Toluene*	<0.050	0.050	07/23/2015	ND	1.92	96.2	2.00	1.40	
Ethylbenzene*	<0.050	0.050	07/23/2015	ND	2.05	103	2.00	2.64	
Total Xylenes*	<0.150	0.150	07/23/2015	ND	5.38	89.6	6.00	2.81	
Total BTEX	<0.300	0.300	07/23/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6660	16.0	07/22/2015	ND	432	108	400	7.69	

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	07/23/2015	ND	203	102	200	1.07	
DRO >C10-C28	<10.0	10.0	07/23/2015	ND	214	107	200	5.72	

Surrogate: 1-Chlorooctane 97.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 91.6 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/20/2015
Reported: 07/27/2015
Project Name: HACKBERRY 16 SWD #1
Project Number: 70079416001
Project Location: SEC 16. T19S ,R31E

Sampling Date: 07/17/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-7 1' (H501874-31)

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	07/23/2015	ND	1.92	95.9	2.00	0.776	
Toluene*	<0.050	0.050	07/23/2015	ND	1.92	96.2	2.00	1.40	
Ethylbenzene*	<0.050	0.050	07/23/2015	ND	2.05	103	2.00	2.64	
Total Xylenes*	<0.150	0.150	07/23/2015	ND	5.38	89.6	6.00	2.81	
Total BTEX	<0.300	0.300	07/23/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	07/22/2015	ND	432	108	400	7.69	

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	07/23/2015	ND	203	102	200	1.07	
DRO >C10-C28	<10.0	10.0	07/23/2015	ND	214	107	200	5.72	

Surrogate: 1-Chlorooctane 96.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.1 % 52.1-176

Sample ID: S-7 2' (H501874-32)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	07/24/2015	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/20/2015	Sampling Date:	07/17/2015
Reported:	07/27/2015	Sampling Type:	Soil
Project Name:	HACKBERRY 16 SWD #1	Sampling Condition:	Cool & Intact
Project Number:	70079416001	Sample Received By:	Jodi Henson
Project Location:	SEC 16. T19S ,R31E		

Sample ID: S-7 3' (H501874-33)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	07/24/2015	ND	400	100	400	3.92	

Sample ID: S-7 4' (H501874-34)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	07/24/2015	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

* = Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager



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

Page 24 of 26



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/LPE

Project Manager: D. Adkins

Address: 408 W. Texas Ave.

City: Artesia State: NM Zip: 88210

Phone #: 575-746-8768 Fax #: 575-746-8905

Project #: 70079416001 Project Owner: Decon

Project Name: Hackberry 16 SWD #1

Project Location: Sec 16, T19S, R31E

Sampler Name: G. J. Adkins

P.O. #:

Company: Talon/LPE

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :												
H50K514	S-5-0'																				
21	S-5-0'																				
22	S-5-1'																				
23	S-5-2'																				
24	S-5-3'																				
25	S-5-0'																				
26	S-5-1'																				
27	S-5-2'																				
28	S-5-3'																				
29	S-5-4'																				
30	S-5-7-0'																				

PLEASE NOTE: Liability and Damages. Cardinal's liability and damages are limited to the amount paid by the client for the analysis. 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.

Relinquished By: [Signature] Date: [Blank] Received By: [Signature] Date: [Blank]

Relinquished By: [Signature] Date: [Blank] Received By: [Signature] Date: [Blank]

Delivered By: (Circle One) [Signature] Date: [Blank] Received By: [Signature] Date: [Blank]

Sampler - UPS - Bus - Other: [Blank] Sample Condition: [Blank] Checked By: [Signature]

Phone Result: ☐ Yes ☐ No Add'l Phone #: [Blank]
Fax Result: ☐ Yes ☐ No Add'l Fax #: [Blank]

REMARKS:

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/LPE
Project Manager: D. Holkins
Address: 408 W. Texas Ave.
City: Artesia
State: NM Zip: 88210
Phone #: 575-746-8768 Fax #: 575-746-8905
Project #: 20079416 si Project Owner: Deven
Project Name: Hackberry 16 SUD #1
Project Location: Sec 16 T19S, R31E
Sample Name: G. Baccu

FOR LAB USE ONLY
Lab I.D. Sample I.D.
H501674
31 S. 7 1' x
32 S. 7 2' x
33 S. 7 3' x
34 S. 7 4' x
(G)RAB OR (C)OMP.
CONTAINERS
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER :
ACID/BASE:
ICE / COOL
OTHER :
DATE TIME
7/17/15 2:06
7/17/15 2:09
7/17/15 2:13
Total Chloride
T PH
B TEX

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. 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.

Relinquished By: [Signature]
Date: [Blank]
Time: [Blank]
Received By: Paul Myers
Date: 7/20/15
Time: 3:30
Delivered By: (Circle One) Paul Myers
Sample Condition: Cool ☒ Intact ☒
Sampler - UPS - Bus - Other: 5.0e
CHECKED BY: [Signature]
REMARKS: 4084
Phone Result: ☐ Yes ☐ No Add'l Phone #: [Blank]
Fax Result: ☐ Yes ☐ No Add'l Fax #: [Blank]

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