

Bratcher, Mike, EMNRD

From: Michael Stubblefield <mcstubblefield@talonlpe.com>
Sent: Monday, May 06, 2013 5:59 PM
To: Bratcher, Mike, EMNRD
Cc: Michael Barrett; Jerry Smith
Subject: FW: REVISED LOGAN STATE NO 2
Attachments: H300968R TALON.pdf; LOGAN STATE NO 2; Lime Rock Res., LLC Logan 2 State battery site diagram for soil sampling locations.pdf; Lime Rock Resources, LLC Logan State No.2 018.JPG; Lime Rock Resources, LLC Logan State No.2 010.JPG

Dear Mr. Bratcher,

Talon/LPE is sending the analytical test results dated 5/1/13 for soil samples collected at the Lime Rock Resources, LLC Logan 2 State battery. Further excavation has been completed on sample location S-8. Please find analytical test results dated 5/6/13 attached. Photos are attached. Based upon the analytical test results Lime Rock Resources, LLC is requesting approval to backfill the excavated area. I will contact you in the morning the review data.

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



From: Celey Keene [<mailto:celey.keene@cardinallabsnm.com>]
Sent: Wednesday, May 01, 2013 4:05 PM
To: David Adkins; Kimberly M. Wilson; Michael Stubblefield; Sheldon Hitchcock
Subject: REVISED LOGAN STATE NO 2

Attached is the revised report for the above mentioned project with the added chlorides. This report will replace the one sent 04/29/13.

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 01, 2013

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: LOGAN STATE NO. 2

Enclosed are the results of analyses for samples received by the laboratory on 04/24/13 13:10.

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,

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

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/24/2013	Sampling Date:	04/24/2013
Reported:	05/01/2013	Sampling Type:	Soil
Project Name:	LOGAN STATE NO. 2	Sampling Condition:	Cool & Intact
Project Number:	701307.045.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T18S - R31E		

Sample ID: S - 4 (H300968-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	04/26/2013	ND	432	108	400	3.77		
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	04/26/2013	ND	221	110	200	0.0421		
DRO >C10-C28	34.6	10.0	04/26/2013	ND	215	107	200	0.553		

Surrogate: 1-Chlorooctane 102 % 65.2-140
 Surrogate: 1-Chlorooctadecane 103 % 63.6-154

Sample ID: S - 5 (H300968-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1260	16.0	04/26/2013	ND	432	108	400	3.77		
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	04/26/2013	ND	221	110	200	0.0421		
DRO >C10-C28	<10.0	10.0	04/26/2013	ND	215	107	200	0.553		

Surrogate: 1-Chlorooctane 111 % 65.2-140
 Surrogate: 1-Chlorooctadecane 116 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 04/24/2013
 Reported: 05/01/2013
 Project Name: LOGAN STATE NO. 2
 Project Number: 701307.045.01
 Project Location: SEC. 2 - T18S - R31E

 Sampling Date: 04/24/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S - 6 (H300968-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	04/26/2013	ND	432	108	400	3.77		
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	04/26/2013	ND	221	110	200	0.0421		
DRO >C10-C28	<10.0	10.0	04/26/2013	ND	215	107	200	0.553		

Surrogate: 1-Chlorooctane 97.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.4 % 63.6-154

Sample ID: S - 7 (H300968-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	05/01/2013	ND	416	104	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	04/26/2013	ND	221	110	200	0.0421		
DRO >C10-C28	<10.0	10.0	04/26/2013	ND	215	107	200	0.553		

Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 116 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 04/24/2013
 Reported: 05/01/2013
 Project Name: LOGAN STATE NO. 2
 Project Number: 701307.045.01
 Project Location: SEC. 2 - T18S - R31E

 Sampling Date: 04/24/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S - 8 (H300968-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5240	16.0	05/01/2013	ND	416	104	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	04/26/2013	ND	221	110	200	0.0421		
DRO >C10-C28	<10.0	10.0	04/26/2013	ND	215	107	200	0.553		
Surrogate: 1-Chlorooctane	112 %	65.2-140								
Surrogate: 1-Chlorooctadecane	114 %	63.6-154								

Sample ID: S - 9 (H300968-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	05/01/2013	ND	416	104	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	04/26/2013	ND	171	85.5	200	11.1		
DRO >C10-C28	56.6	10.0	04/26/2013	ND	164	82.0	200	13.4		
Surrogate: 1-Chlorooctane	102 %	65.2-140								
Surrogate: 1-Chlorooctadecane	114 %	63.6-154								

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/24/2013	Sampling Date:	04/24/2013
Reported:	05/01/2013	Sampling Type:	Soil
Project Name:	LOGAN STATE NO. 2	Sampling Condition:	Cool & Intact
Project Number:	701307.045.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T18S - R31E		

Sample ID: S - 10 (H300968-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/01/2013	ND	416	104	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	04/26/2013	ND	171	85.5	200	11.1		
DRO >C10-C28	<10.0	10.0	04/26/2013	ND	164	82.0	200	13.4		

Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

Sample ID: S - 11 (H300968-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	05/01/2013	ND	416	104	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	04/27/2013	ND	171	85.5	200	11.1		
DRO >C10-C28	13.8	10.0	04/27/2013	ND	164	82.0	200	13.4		

Surrogate: 1-Chlorooctane 95.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/24/2013	Sampling Date:	04/24/2013
Reported:	05/01/2013	Sampling Type:	Soil
Project Name:	LOGAN STATE NO. 2	Sampling Condition:	Cool & Intact
Project Number:	701307.045.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T18S - R31E		

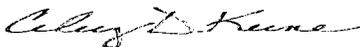
Sample ID: S - 12 BACKGROUND (H300968-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/01/2013	ND	416	104	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	04/27/2013	ND	171	85.5	200	11.1		
DRO >C10-C28	<10.0	10.0	04/27/2013	ND	164	82.0	200	13.4		
Surrogate: 1-Chlorooctane	97.5 %	65.2-140								
Surrogate: 1-Chlorooctadecane	107 %	63.6-154								

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Bratcher, Mike, EMNRD

From: Celey Keene <celey.keene@cardinallabsnm.com>
Sent: Monday, May 06, 2013 4:52 PM
To: David Adkins; Kimberly M. Wilson; Michael Stubblefield; Sheldon Hitchcock
Subject: LOGAN STATE NO 2
Attachments: H301056 TALON.pdf

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 06, 2013

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: LOGAN STATE NO. 2

Enclosed are the results of analyses for samples received by the laboratory on 05/03/13 11:20.

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.

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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	05/03/2013	Sampling Date:	05/02/2013
Reported:	05/06/2013	Sampling Type:	Soil
Project Name:	LOGAN STATE NO. 2	Sampling Condition:	Cool & Intact
Project Number:	701307.045.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T18S - R27E		

Sample ID: S-12 (H301056-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/06/2013	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

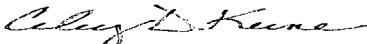
Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
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- *** Insufficient time to reach temperature.
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Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

Bratcher, Mike, EMNRD

From: Michael Barrett <mbarrett@limerockresources.com>
Sent: Tuesday, May 07, 2013 4:47 AM
To: Michael Stubblefield; Bratcher, Mike, EMNRD
Cc: Jerry Smith
Subject: RE: REVISED LOGAN STATE NO 2

Thanks

From: Michael Stubblefield [<mailto:mcstubblefield@talonlpe.com>]
Sent: Monday, May 06, 2013 5:59 PM
To: Bratcher, Mike, EMNRD
Cc: Michael Barrett; Jerry Smith
Subject: FW: REVISED LOGAN STATE NO 2

Dear Mr. Bratcher,

Talon/LPE is sending the analytical test results dated 5/1/13 for soil samples collected at the Lime Rock Resources, LLC Logan 2 State battery. Further excavation has been completed on sample location S-8. Please find analytical test results dated 5/6/13 attached. Photos are attached. Based upon the analytical test results Lime Rock Resources, LLC is requesting approval to backfill the excavated area. I will contact you in the morning the review data.

Mike Stubblefield
Project Manager
Talon/LPE
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Artesia, New Mexico 88210
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Sent: Wednesday, May 01, 2013 4:05 PM
To: David Adkins; Kimberly M. Wilson; Michael Stubblefield; Sheldon Hitchcock
Subject: REVISED LOGAN STATE NO 2

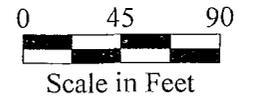
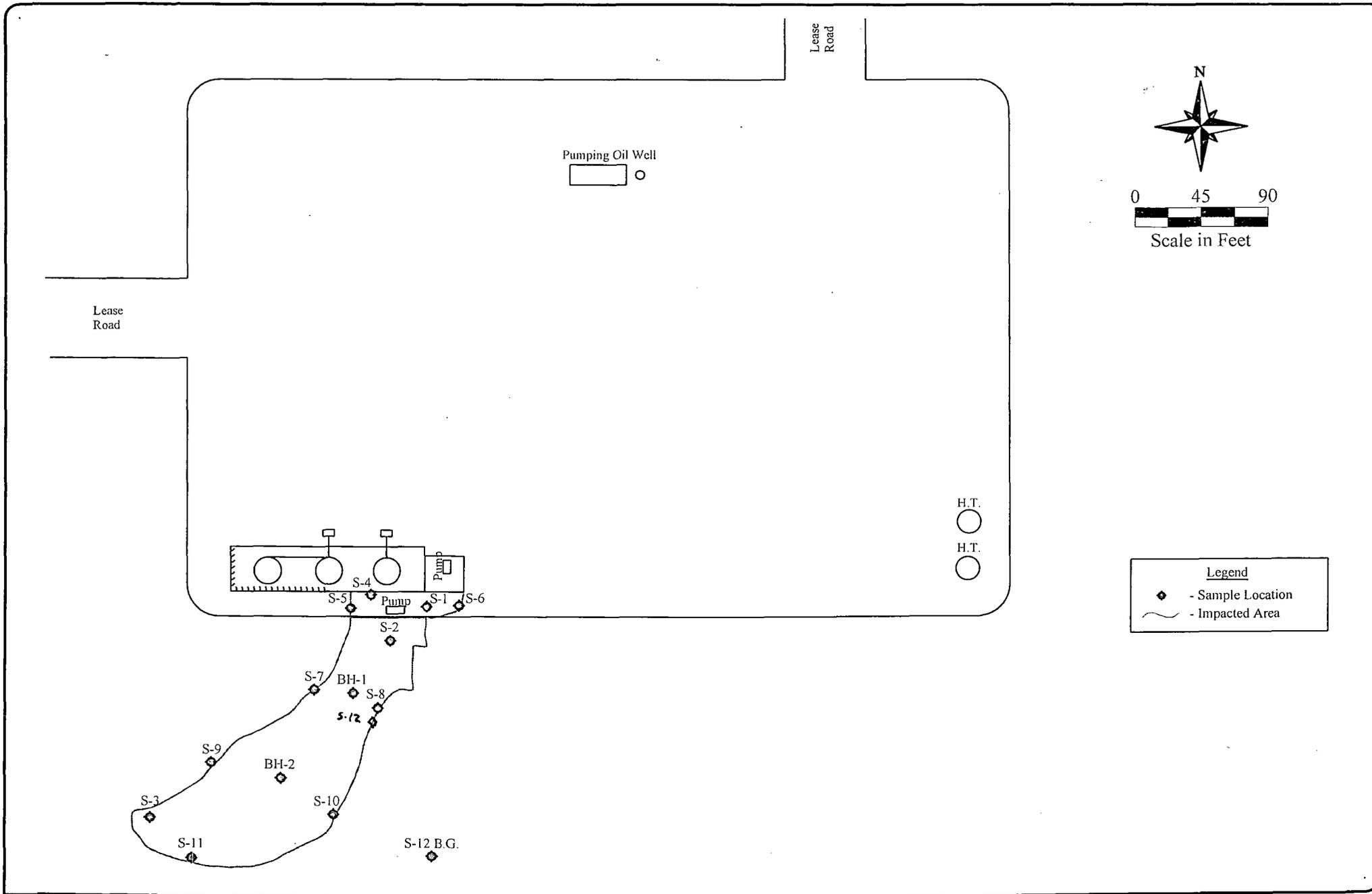
Attached is the revised report for the above mentioned project with the added chlorides. This report will replace the one sent 04/29/13.

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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Legend

- ◆ - Sample Location
- ~ - Impacted Area



Date: 04/25/2013
 Scale: 1" = 90'
 Drawn By: TJS

Logan 2 State Battery
 Lime Rock Resources
 Eddy County, New Mexico
 Figure 1 - Site Plan

