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### **Chloride Probe Field Analysis Sheet**

Client:	LINN Energy				
Site:	Skelly A Water Tank		<del></del>	Project Number: 253-3299-000	
Technican:	Osborn			Contaminant: Chlorides	
Instrument:	YSI Chloride Probe			Model/SN: Pro 1030/114100517	
Calibration Ch	ecks Good	✓ Yes	No	Claibration Standard: 250 mg/kg	

<del>-</del>	scha dood.				ion otanidard	
Date	Sample I.D.	Milliliters of Sample Used	Dilution	Reading (mg/kg)	Final Result (mg/kg)	Notations
03/24/12	SP1 Bot 6'	10	6.00	298.00	1,788.00	Bottom Sample
03/24/12	SP1 E Wall 3'	10	6.00	65.00	390.00	East Wall Sample
03/24/12	SP1 W Wall 3'	10	6.00	65.00	390.00	West Wall Sample
03/24/12	SP1 E Wall 3'	10	6.00	133.00	798.00	East Wall Sample
03/24/12	SP2 Bot 6'	10	6.00	807.00	4,842.00	Bottom Sample
03/24/12	SP2 E Wall 3'	10	6.00	12.00	72.00	East Wall Sample
03/24/12	SP2 W Wall 3'	10	6.00	42.00	252.00	West Wall Sample
03/24/12	SP3 Bot 6'	10	6.00	823.00	4,938.00	Bottom Sample
03/24/12	SP3 W Wall 3'	10	6.00	17.00	102.00	West Wall Sample
03/24/12	SP3 E Wall 3'	10	6.00	994.00	5,964.00	East Wall Sample, Next to Pump
03/24/12	SP4 Bot 6'	10	6.00	898.00	5,388.00	Bottom Sample
03/24/12	SP4 W Wall 3'	10	6.00	11.00	66.00	West Wall Sample
03/24/12	SP4 E Wall 3	10	6.00	128.00	768.00	East Wall Sample
03/24/12	SP4 S Wall 3	10	6.00	10.00	60.00	South Wall Sample
03/24/12	SP5 Bot 6'	10	6.00	196.00	1,176.00	Bottom Sample
03/24/12	SP5 E Wall 3	10	6.00	5.00	30.00	East Wall Sample
03/24/12	SP5 S Wall 2'	10	6.00	8.00	48.00	West Wall Sample
03/24/12	SP5 S Wall 3'	10	6.00	78.00	468.00	South Wall Sample
					0.00	
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### Chloride Probe Field Analysis Sheet

Client:	LINN Energy		
Site:	Skelly A Water Tank-Delineation	Project Number: 253-3299-000	
Technican:	Osborn	Contaminant: Chlorides	
Instrument:	YSI Chloride Probe	Model/SN: Pro 1030/114100517	
Calibration Ch	ecks Good: Yes No	Claibration Standard: 250 mg/kg	_

Calibration Cn	ecks Good.		140	Ciaibrat	ion Standard:	250 Hig/kg
Date	Sample I.D.	Milliliters of Sample Used	Dilution	Reading (mg/kg)	Final Result (mg/kg)	Notations
04/19/12	SP1 6-7'	10	6.00	160.00	960.00	
04/19/12	SP1 7-8'	10	6.00	150.00	900.00	
04/19/12	SP1 8-9'	10	6.00	55.00	330.00	
04/19/12	SP2 6-7'	10	6.00	750.00	4,500.00	
04/19/12	SP2 7-8'	10	6.00	650.00	3,900.00	
04/19/12	SP2 8-9	10	6.00	565.00	3,390.00	
04/19/12	SP2 9-10	10	6.00	570.00	3,420.00	
04/19/12	SP2 10-11	10	6.00	640.00	3,840.00	
04/19/12	SP2 11-12	10	6.00	520.00	3,120.00	
04/19/12	SP3 6-7	10	6.00	715.00	4,290.00	
04/19/12	SP3 7-8	10	6.00	620.00	3,720.00	
04/19/12	SP3 8-9	10	6.00	715.00	4,290.00	
04/19/12	SP3 9-10	10	6.00	400.00	2,400.00	
04/19/12	SP3 10-11	10	6.00	335.00	2,010.00	
04/19/12	SP3 11-12	10	6.00	400.00	2,400.00	
04/19/12	SPH 6-7	10	6.00	1100.00	6,600.00	
04/19/12	SPH 7-8	10	6.00	920.00	5,520.00	
04/19/12	SPH 8-9	10	6.00	560.00	3,360.00	
04/19/12	SPH 9-10	10	6.00	525.00	3,150.00	
04/19/12	SPH 10-11	10	6.00	520.00	3,120.00	
04/19/12	SPH 11-12	10	6.00	390.00	2,340.00	
<del>-</del> ' v						
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April 16, 2012

FRED HOLMES

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: SKELLY UNIT PRODUCED WATER TANK

Enclosed are the results of analyses for samples received by the laboratory on 04/09/12 17:00.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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.

Celeg D. Keine

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



ETECH Environmental & Safety Solutions, Inc.

FRED HOLMES P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received:

04/09/2012

Sampling Date:

04/09/2012

Reported:

04/16/2012

Sampling Type:

Soil

Chloride, SM4500CI-B

Sampling Condition:

\*\* (See Notes)

Project Name: Project Number: SKELLY UNIT PRODUCED WATER TANK 253-3299-000

Sample Received By:

Project Location:

LOCO HILLS, NM

mg/kg

Jodi Henson

### Sample ID: SP 1 BOTTOM 6' (H200808-01)

	3	75	7.11G.1720	a by the					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1650	16.0	04/12/2012	ND	400	100	400	0.00	
Sample ID: SP 1 E WALL 3	3' (H200808	3-02)							
Chloride, SM4500Cl-8	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	04/13/2012	ND	400	100	400	0.00	
Sample ID: SP 1 W WALL	3' (H20080	8-03)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	04/13/2012	ND	400	100	400	0.00	
Sample ID: SP 1 N WALL :	3' (H200808	3-04)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	04/13/2012	ND	400	100	400	0.00	

Analyzed By: AP

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 tzrt, 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 chim 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. Keine



ETECH Environmental & Safety Solutions, Inc.

FRED HOLMES P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received:

04/09/2012

Sampling Date:

04/09/2012

Reported:

04/16/2012

Sampling Type:

Soil

Project Name:

04/16/2012

Sampling Condition:

\*\* (See Notes)

RPD

0.00

Qualifier

Project Number:

253-3299-000

Sample Received By:

Jodi Henson

Project Location:

LOCO HILLS, NM

Sample ID: SP 2 BOTTOM 6' (H200808-05)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC
Chloride	4480	16.0	04/13/2012	ND	400	100	400

SKELLY UNIT PRODUCED WATER TANK

### Sample ID: SP 2 W WALL 3' (H200808-06)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPÐ	Qualifier
Chloride	272	16.0	04/13/2012	ND	400	100	400	0.00	

### Sample ID: SP 2 E WALL 3' (H200808-07)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/13/2012	ND	432	108	400	0.00	

### Sample ID: SP 3 BOTTOM 6' (H200808-08)

Chloride, SM4500Cl-B mg/kg		/kg	Analyzed By: AP						
. Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	04/13/2012	ND	432	108	400	0.00	

### Sample ID: SP 3 E WALL 3' (H200808-09)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	04/13/2012	ND	432	108	400	0.00	

### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



ETECH Environmental & Safety Solutions, Inc.

FRED HOLMES P. O. BOX 8469 MIDLAND TX, 79708

04/13/2012

Fax To:

(432) 563-2213

Received:

04/09/2012

Sampling Date:

04/09/2012

Reported:

Chloride

04/16/2012

Sampling Type:

432

108

Soil

400

Project Name:

SKELLY UNIT PRODUCED WATER TANK

Sampling Condition:

\*\* (See Notes)

Project Number:

253-3299-000

Sample Received By:

Jodi Henson

RPD

0.00

Qualifier

Project Location:

LOCO HILLS, NM

Sample ID: SP 3 W WALL 3' (H200808-10)

Chloride, SM4500Cl-B	mg/kg		Analyzed	I By: AP			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC

16.0

### Sample ID: SP 4 BOTTOM 6' (H200808-11)

Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: AP					··· ····
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	04/13/2012	ND	432	108	400	0.00	

### Sample ID: SP 4 S WALL 3' (H200808-12)

Chloride, SM4500CI-B	. mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	B\$	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/13/2012	ND	432	108	400	0.00	

### Sample ID: SP 4 W WALL 3' (H200808-13)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/13/2012	ND	432	108	400	0.00	

### Sample ID: SP 4 E WALL 3' (H200808-14)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	04/13/2012	ND	432	108	400	0.00	

### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



ETECH Environmental & Safety Solutions, Inc.

FRED HOLMES P. O. BOX 8469 MIDLAND TX, 79708

(432) 563-2213 Fax To:

Received:

04/09/2012

Sampling Date:

04/09/2012

Reported:

04/16/2012

Sampling Type:

Project Name:

Chloride SM4500ClaB

SKELLY UNIT PRODUCED WATER TANK

Sampling Condition:

\*\* (See Notes)

Project Number:

253-3299-000

Project Location:

LOCO HILLS, NM

Sample Received By:

Jodi Henson

### Sample ID: SP 5 BOTTOM 3' (H200808-15)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>1150</b> 16.0		04/13/2012 ND		432	108	400	0.00		
Sample ID: SP 5 S WALL	2' (H200808	-16)								
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP		<del></del>					
Analyte	. Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/13/2012	ND	432	108	400	0.00		
Sample ID: SP 5 E WALL	2' (H200808	-17)								
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AP					<u>.</u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>32.0</b> 16.0		04/13/2012 ND		432	108	400	0.00		
Sample ID: SP 5 S WALL	3' (H200808	-18)								
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP					····as		
Analyte	Result	Result Reporting Limit		Analyzed Method Blank		% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>432</b> 16.0		04/13/2012 ND		432	108	400	0.00		

Analyzed Ry: AD

\*=Accredited Analyte Cardinal Laboratories

PLEASE NOTE: Usbildy and Damages. Cardinal's lability and client's exclusive remedy for any claim ansing, whether based in contract or tord, 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 waved unless made in writing and received by Cardinal within thirty (36) 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 subsidiances, affiliates or successors airsing 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

Celeg D. Keine



### **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 SM4500CI-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 lability and clients exclusive remedy for any claim ansing, 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 warned unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be labile for incidental or consequential damages, including, without limitation, business interrupports, loss of use, or loss of profits incurred by client, its absolidaries, affiliations a nalign 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. Kuna

### CARDINAL WLaboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Σ	393-2476
Hobbs,	(575)
	<b>EAX (575)</b>
Marlanc	93-2326
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101 m	(575)

Company Name: Thirt		STATES OF THE ST	ANALYSIS REQUEST	
Project Manager: Fred Holvers		P.O.#: 253-3249-000		
Address:		Company:		
;Ajo	State: Zip:	Attn:		
	Fax #:	Address:		
Project #: 253-3299-500 P	Project Owner:	City:		
Project Name: SKONIN WWA Praduce Ola	raduce 9 Wator Tank	State: Zip:		
Project Location: L. & c. &  -4	14:115	Phone #:		
Sampler Name: Style of the style	مسابح ريه سم	<u> </u>		
FOR LAB USE ONLY		PRESERV SAMPLING		
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Delivered By: (Circle One)	S	tion CHECKED BY:		
Sampler - UPS - Bus - Other:	JOG Tres Pres			
				1

### CARDINIAL Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240	326 FAX (575) 393-2476
101 East M	(575) 393-2326

ompany Name: 下すって		01 TII8	ANALYSIS REQUEST
roject Manager: Fred Hakans	Company of a City Members have in yord on spells above absorbed sections.	P.O. #: 253-3249-050	
ddress:	and the second s	Company:	
State: Zip:	D;	ALLIT: CONTROL OF AND	
FOX #:	An	Address;	
253-3299-860	control control of extension of the control of the	City:	
roject Name: Skelly Wart Prostant & Water	14.5	State: Zip;	
roject Location: L. O C.O. 14 Chlos		Phone #:	
ampler Name: 公式によっていると		Fax#:	
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Lab I.D. Sample I.D.	MGMU FAWET	COOF	
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PLEASE ROTE: FLISSY and Generals ballsky culturer former for the dan development of an and an analytic for an analytic beam of the anal

Phone Result: (1) Yes (1) No Add'l Phone #:  Fax Result: (1) Yes (1) No Add'l Fax 6:  REMARKS:				
ceived By:	Sate: Roceived By:	Time:	Sample Condition CHECKED BY:	250 Divis Nos (Mariens)
Relinquished By: Relinq	Relinquished By:	ji.	Dolivered By: (Circle One)	Sampler - UPS - Bus - Other

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393/2476

Page 8 of 8



April 20, 2012

FRED HOLMES

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: SKELLY A BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/19/12 12:00.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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.

Celeg D. Keine

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



ETECH Environmental & Safety Solutions, Inc. FRED HOLMES P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received:

04/19/2012

Reported:

04/20/2012

Project Name: Project Number: SKELLY A BATTERY 253-3999-000

Project Location:

EDDY COUNTY, NM

Sampling Date:

04/19/2012

Sampling Type:

Sampling Condition:

\*\* (See Notes)

Sample Received By:

Jodi Henson

### Sample ID: SP 1 6-7' (H200902-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Result Reporting Limit		Analyzed Method Blank		% Recovery	True Value QC	RPD	Qualifier
Chloride	1280 16.0 04/2 (H200902-02)  mg/kg  Result Reporting Limit Ana		04/20/2012	ND	400	100	400	0.00	
Sample ID: SP 2 11-12' (I	H200902-02)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	04/20/2012	ND	400	100	400	0.00	
Sample ID: SP 3 11-12' (l									
20111bic 10' 24.2 11-15 (	H200902-03)								
•	mg,		Analyze	d By: AP					
•	-		Analyze Analyzed	d By: AP  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride, SM4500CI-8  Analyte	mg,	/kg	· ·	•	BS 400	% Recovery	True Value QC 400	RPD 0.00	Qualifier
Chloride, SM4500CI-8  Analyte  Chloride	Result	Reporting Limit	Analyzed	Method Blank		•	•		Qualifier
Chloride, SM4500CI-8  Analyte  Chloride  Sample ID: SP 4 11-12' (I	Result	Reporting Limit	Analyzed 04/20/2012	Method Blank		•	•		Qualifier
Chloride, SM4500CI-8	mg, Result 3160 H200902-04)	Reporting Limit	Analyzed 04/20/2012	Method Blank ND		•	•		Qualifier  Qualifier

### Cardinal Laboratories

\*=Accredited Analyte

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### **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 SM4\$00Cl-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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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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Project Manager: Fred Address: City: State: Fax #:	State:	Fax #:	1# 252 7999 600 Project O	Project Name: Whyla A. B. Herry Project Location: Bally Courts	Samplor Namo: Lury OSborn	Lab I.D. Sample I.D.	ROLOGE	2 (V) 2 11-17 (	2 187 11-12'		DIE: Lugisty wid Sanzyet, Caratab tabby put shees erinks every	sup-cover, shall Gardhall by habit for anark-hall as competitional divinages, it succeeds any one way of or repayed to the peter menors of ectuary find softing and one of the contract of the softing of the softing of the contract of the softing o	l	$\nearrow$	7≀ .	ે છે