Bratcher, Mike, EMNRD

From:

Vernon Black [vernon@hungry-horse.com]

Sent:

Thursday, May 12, 2011 9:09 AM

To:

Bratcher, Mike, EMNRD; Terry gregston@nm.blm.gov

Subject:

RE: Emailing: TURNER B #103 Work Plan

Thanks for the help.....I was wondering where you've been....This is a small affected area that basically has overspray on the west side of the road and a small area where the line actually sprayed directly into the ground. The horizontal/lateral definition of the area is pretty defined.

Once we get the initial 4' out I'll collect and field test samples to ensure we are good. We may have to take out more, but I'll make sure we've got it clean before we get our confirmation sample.

Thanks, Vernon

----Original Message----

From: Bratcher, Mike, EMNRD [mailto:mike.bratcher@state.nm.us]

Sent: Thursday, May 12, 2011 8:57 AM

To: Vernon Black; <u>Terry gregston@nm.blm.gov</u> Subject: RE: Emailing: TURNER B #103 Work Plan

Vernon,

I haven't visited the site, so my comments are based solely on the analytical data. OCD would want to see the chloride impact delineated in the

SP1 area, especially since there was in increase at depth. You may want to do that before excavating in case boring is necessary. The mechanics of how you perform the delineation is up to you, but the delineation would need to be done. Also, we would want to make sure the horizontal/lateral extent of the spill has been defined.

Without having seen the site, I assume the sample points are adequate to define the spill and would justify the blending you are proposing. In other words, materials between the sample points would not be at a higher contaminant level than what is being seen in the sample point data. (I don't know what the distance is between sample points)

If Terry has visited the site, she may have more insight and recommendations, but these would be my concerns/recommendations on reviewing what was sent.

Mike Bratcher
NMOCD District 2
1301 W. Grand Ave.
Artesia, NM 88210
575-748-1283 Ext.108
575-626-0857
mike.bratcher@state.nm.us

----Original Message----

From: Vernon Black [mailto:vernon@hungry-horse.com]

Sent: Thursday, May 12, 2011 7:08 AM

To: Bratcher, Mike, EMNRD; Terry gregston@nm.blm.gov

Subject: Emailing: TURNER B #103 Work Plan

Please provide your feedback for this work plan.

Thanks, Vernon

Bratcher, Mike, EMNRD

From:

Vernon Black [vernon@hungry-horse.com]

Sent:

Thursday, May 12, 2011 7:08 AM

To:

Bratcher, Mike, EMNRD; Terry_gregston@nm.blm.gov Emailing: TURNER B #103 Work Plan

Subject:

Attachments:

TURNER B #103 Work Plan

Please provide your feedback for this work plan.

Thanks, Vernon



HUNGRY HORSE, LLC ENVIRONMENTAL SERVICES

Dirt Work * On-Site Remediation * Soil Testing * Excavation

Page | 1

2May11

To: Mike Bratcher, NM-OCD Dist II Terry Gregston, BLM, Carlsbad Reference: Remediation Work Plan

Operator: Linn Energy Location: Turner B #103 API: 30-015-26665 NMI C 0293958

Legals: Ul. B. Sec. 20, T175, R31E

Background Information

The Turner B #103 is located approximately five miles east of Loco Hills, NM north of Highway 82 and west of CR222. This is an active well site with a GPS location of N32.8236 W103.8881. The site lies on the edge of a gently sloping hill that slopes toward the west and southwest. The New Mexico Office of the State Engineer lists no data for depth to groundwater for this location. However, the Eddy County Depth to Groundwater Map indicates a depth of 300'.

The site ranking score for this site 0 based upon the following information:

Depth to Groundwater >100'
Distance to Surface Body of Water >1000'
Wellhead Protection Area >1000'

The release exited the location in two areas, one to the west and one to the southwest

Current Work Completed

Four sample points were chosen for soil sampling with samples being obtained by use of hand tools. Samples were obtained between 1'and 3' BGS. Samples were collected according to generally accepted industry standards and were transported under chain of custody to Cardinal Lab in Hobbs, NM for analysis. A sketch of the affected areas and lab analytical results are included with this proposal.

P. O. Box 1058 * Hobbs New Mexico * Office 505.393.3386 * Fax 505.391.4585

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Remediation Work Plan Proposal

Lab analysis shows a presence of chloride and/or hydrocarbon contamination only at SP 1(Chlorides) and SP 4(TPH). The proposed remediation plan is to mechanically excavate the affected area in the vicinity of SP 1 to a depth of 4' BGS due to the chloride content. Upon completion of the excavation as stated, confirmation samples will be obtained from the same sample point area and analyzed for Chlorides. Analytical results will be presented to NM OCD and BLM for their feedback.

The remainder of the stained areas between SP 1 & SP 2 and between SP 3 & SP 4 will be mechanically blended with the surrounding soil.

Upon approval to backfill the excavated area, clean material from a BLM approved source will used for backfill. Both the excavated area and the blended areas will be re-seeded with a BLM approved seed mixture. All excavated soil will be transported to a division approved disposal facility.

Sincerely, ,

Vernon K. Black

HSE

Hungry Horse, LLC

	SP1@1' @3'	CH 3200 3520	TPH 5 ⁷ 93 262
	SP2 @1' @2' SP3 @1'	64 32 0	94 ND 0
SP 2	e3'	O	O
	SP 3	0 1.03 0 1.03	
SP 4	SP4@1'		
for the Annual Comment of Comment			

Note: Drawing is not to scale, to be used for illustration only.



Hungry Horse Environmental

VERNON BLACK P.O. Box 1058

Hobbs NM, 88240 Fax To: (505) 391-4585

Received:

04/12/2011

Sampling Date:

04/12/2011

Reported:

04/15/2011

Sampling Týpe:

Soil

Project Name:

TURNER 8 103

Sampling Condition:

** (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Celey D. Keene

Project Location:

EDDY COUNTY, NEW MEXICO

Sample ID: SP #1 1' BGS (H100739-01)

87EX 80218	nıg,	mg/kg		d By: CMS			·	/4/////4/4/4/4/4/4/4/4/4/4/4/4/4/4/4/4	
Analyte	Result	Reporting Limit	Analyzeki	Method Blank	88	% Recovery	True Value QC	RPD	Qualifier
Benzene ⁴	<0.050 0.050		04/14/2011	ND	1.99	99.5	2.00	2.35	
Tolughan	< 0.050 0.050		04/14/2011	ND	1.96	98.2	2.00	2.38	
Ethylbenzene*	<0.050 0.050		04/14/2011	NO	ND 1.97		2.00	1.51	
Tatal Xylenes*	<0.150 0.150		04/14/2011	ND	5.80	96.7	6.00	1.46	
Sorregens: 4-Bromofluerobenzene (PIL	z d-Bromoftwerobenzene WIL 92.7% 70-1.			· were war . Many congr				100,000	
Chloride, SM4500CI-3	mg,	kg	Analyze	а ву: нм	~~~~~				
Analyte	Result	Repending Limit	Analyzeti	nalyzeri – Method Blank		% Recovery	True Value QC	RFD	Qualifier
Chloride	3200	16.0	04/14/2011 ND		416	104	400	0.00	
TPN SOLSM	mg,	′kg	Analyze	d By: AB					
Antikyt e	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO (6-C10	<100	100	04/14/2011	ND	222	111	200	1.35	
ORO >C10-C28	593 100		04/14/2011	ND	198	99.0	200	11.7	
Surregule: 1-Chloropoinme	81.7	70-130		· • • • • • • • • • • • • • • • • • • •			·		
Sorogenes 1-Ohloroostadecane	83,7	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 11



Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240

Fax To: (505) 391-4585

Received: Reported: 04/12/2011

04/15/2011

Project Name:

TURNER B 103

Project Number:

NONE GIVEN

Sampling Date:

04/12/2011

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: SP #1 3' BGS (H100739-02)

BTEX 8021B	mg,	kg	Analyze	d By: CMS	**(************************************				
Arolyte	Result	Reporting Limit	Analyzed	Method Blank	es	% Recovery	True Value QC	RPO	Qualifier
Bearine*	< 0.050	0.050	04/14/2011	ND	1,99	99.5	2.00	2.35	
Toluene*	<0.050	0.050	04/14/2011	ND	1.96	98.2	2.00	2.38	
Ethylbenzene*	<0.050 0.050		04/14/2011	ND	1.97	98.3	2.00	1.51	
Total Xylenes*	<0.150	0.150	04/14/2011	ND	5.80	96.7	6.00	1.46	
Surrogate, 4-Bromofluorobesteine (PIL	98.5 % 70-730)		***************************************				
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM		<u></u>			***************************************
Analyte	Result	Reporting Limit	Analyzed	and Method Blank		% Recovery	True Value QC	RPO	Qualifier
Chloride	3520	16.0	04/14/2011	NO	416	104	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: AR	······				
Analyle	Result	Reporting Limit	Analyzed	Mithod Blank	BS	% Recovery	True Value QC	KPC	Qualifier
GRO C6-C10	22.6	10.0	04/14/2011	ND	222	111	200	1.35	
DRO >C10-C28	240	10.0	04/14/2011	ND	198	99.0	200	11.7	
ourregate: I-Chieroostane	98.2 % 29-130)	**************************************	······································				
Surregate: 1-Chlorogentleoane	97.5	% 70-13(9						

Cardinal Laboratories

*=Accredited Analyte

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- Land Almangs Francisco Full Wall was seen in a second

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 11



Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240

Fax To: (505) 391-4585

Received:

04/12/2011

Sampling Date:

04/12/2011

Reported:

04/15/2011

Sampling Type:

Soil

Project Name:

TURNER 8 103

Sampling Condition:

** (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Celey D. Keene

Project Location:

EDDY COUNTY, NEW MEXICO

Sample ID: SP #2 1' BGS (H100739-03)

BYEX \$0218	mg/	kg	Analyze	d By: CMS	***************************************			~	
Aoalyte	Rasult	Reporting Limit	Analyzed	Method Blank	88	% Recovery	True Value QC	RPO	Qualifier
Benzone ⁴	<0.050 0.050		04/14/2011	ND	1.99	99.5	2.00	2.35	
Toluene*	<0.050 0.050		04/14/2011	ND	1.96	98.2	2.00	2.38	
Ethylbenzene*	<0.050 0.050		04/14/2011	NO	1.97	98.3	2.00	1.51	
Total Xylenes*	<0.150 0.150		04/14/2011 ND		5.80	96.7	5.00	1.46	
Surrogene: 4-linamaftuoreheasene (PI),	94,21	2 70-13t	}				A. A		months your
Chioride, SM4500CI-b	mg/	kg	Analyze	d By: HM		······			
Analyte	Result	Reporting Umit	Anaiyzed	Analyzed Method Blank		% Recovery	True Value QC.	RPD	Qualifier
Chloride	64.0	0.61	04/14/2011 ND		416	104	400	0.00	
TP!: 8015M	mg/	kg	Analyze	d By: AB					
Analyss	Result	Keporting Limit	Attalyand	Methori Black	BS	% Recovery	True Value QC	RFD	Qualifier
GRO 06-C10	14.4	0.01	04/14/2011	ND	222	111	200	1.35	
DRO >C10-C28	70.1 10.0		04/14/2011	ND	198	99.0	200	11.7	
Swrogate: 1-Chierwictane	98.1% 70-130							annihannihili utotor -4,4	
Surragate: 1-Chloropottalescus	101 5		>						

Cardinal Laboratories

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Caley D. Keene, Lab Director/Quality Manager

Page 4 of 11



Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240

Fax To: (505) 391-4585

Received;

04/12/2011

Sampling Date:

04/12/2011

Reported:

04/15/2011

Sampling Type:

Soil

Project Name:

TURNER B 103

** (See Notes)

Sampling Condition:

Project Number:

NONE GIVEN

Sample Received By:

Celey D. Keene

Project Location:

EDDY COUNTY, NEW MEXICO

Sample ID: SP #2 2' BGS (H100739-04)

BTEX 8021B	mg	'kg	Analyze	d By: CMS				***************************************	-
Analyte	Result	Reporting Limit	Analyzeri	Method Blank	BS	% Recovery	True Value QC	KM)	Qualifier
Conzene*	<0.050 0.050		04/14/2011	ND	1,99	99.5	2.00	2.35	
Tologaes	<0.050	0.050	04/14/2011	ND	1.96	98.2	2.00	2,38	
Etrylienzene*	< 0.050	0.050	04/14/2011	ND	1.97	98.3	2.00	1.51	
Total Xylenes*	<0.150	0.150	04/14/2011	ND	5.80	96.7	6.00	1.46	
No receptur 4-broneoftwornhenzene (PIL	95.2	% 70-131	2					444.5	
Chioride, SN4500CI-8	mg	'kg	Analyze	d By: HM		······································			
Analyte	Result Reporting Unit		Analyzed	Analyzed Method Blank		% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/14/2011	ND	416	104	400	0.00	
TPH 601.5M	mg/	kg	Analyze	d By: AB	9(50\$55580 000075-00000000	**************************************	***************************************		
Analyte	Result	Reporting Unit	Analyzed	Method Black	BS	% Recovery	irue Value QC	RPD	Qualifièr
GRC C6-C10	<10.0	10.0	04/14/2011	ND	222	111	200	1,35	
ORO >C10-C28	<10.0	10.0	04/14/2011	ND	198	99.0	200	11.7	
Surrogale; 1-(Milornocram	89.4 % 20-330		}				- 1994-6-1999 19 19719777	TOTAL STATE OF THE	2009/2010/2010
Surrogate 1-Orloroperadecane	90,8	36 70-136)						

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Lateral Control of the Control of th CPley D. Keene, Lab Director/Quality Manager

Page 5 of 11



Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

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Received: Reported:

04/12/2011 04/15/2011

TURNER B 103

Project Name: Project Number;

NONE GIVEN

Project Location:

EDDY COUNTY, NEW MEXICO

Sampling Date:

04/12/2011

Sampling Type:

Soll

Sampling Condition: Sample Received By: ** (See Notes)

Celey D. Keene

Sample ID: SP #3 1' BGS (H100739-05)

BTEX SC21B	mg,	'kg	Analyze	d By: CMS				***************************************	*************************
kosiyle	Result	Reporting Limit	Analyzed	Method Blank	es	% Recovery	True Value QC	CAN	Qualifier
Benzene*	<0.050 0.050		04/14/2011	ND	1.99	99.5	2.00	2.35	
Totuene*	<0.050 0.050		04/14/2011	ND	1.96	98.2	2.00	2.38	
Ethylbenzene*	<0.050 0.050		04/14/2011	ND	1.97	98.3	2.00	1.51	
Total Xylenes*	<0.150 0.150		04/14/2011 ND		5.80	96.7	6:00	1.46	
oregins, 4-Bromofluorchausene (PH, 94.4%		¥6 70.736	}				n is the transfer to the second of		
Chloride, SM4500CI-8	mg,	′kg	Analyze	d By: HM					
v zajata	Result	Reporting Limis	Analyzed	Method Blank	6S	% Recovery	True Value QC	RPD	Qualifier
Chip ide	< 16.0	16.0	04/14/2011	ND .	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: AB	······································		00000000000000000000000000000000000000	***************************************	
Activity	Result	Reporting Limit	Analyzed	Method Blank	88	% Recovery	True Value QC	RPD	Qualifier
GRG CE-C10	<10.0	10.0	04/14/2011	ND	222	111	200	1.35	
ORO >C10-C28	< 10.0	10.0	04/14/2011	ND	198	99.0	200	11.7	
Servições I-Chloroacture	90.0	% 70-130					* * * * * * * * * * * * * * * * * * *	***************************************	The second secon
Surrogate, 14 Morroctadecaja	87.1	"i 70-130	;						

Cardinal Laboratories

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Later Horizon Land Historia and an annual an annual

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 11



Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240

Fax To: (505) 391-4585

Received:

04/12/2011

Sampling Date:

04/12/2011

Reported:

04/15/2011

Sampling Type:

Soil

Project Name:

TURNER B 103

Sampling Condition:

** (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Celey D. Keene

Project Location:

EDDY COUNTY, NEW MEXICO

Sample ID: SP #3 3' BG5 (H100739-06)

8TEX 80218	mg/	kg	Analyze	d By: CMS	**************************************				
Analyte	Restall	Reporting Limit	Analyzed	Method Blank	25	% Recovery	True Value QC	RP()	Qualifier
Benzeae*	< 0.05 0 0. 050		04/14/2011	ND	1.99	99.5	2.00	2.35	
Toluene*	<0.050 0.050		04/14/2011	ND	1.96	98.2	2.00	2.38	
Ethylberrene [©]	<0.050 0.050		04/14/2011	ND	1.97	98.3	2.00	1.51	
Total Xylenes*	<0.150 0.150		04/14/2011 NO		5.80	96.7	6.00	1.46	
Surregates 4-Bromoficorobenzene (PU)	gate) 4-Bromofisorobenzene (PU) 95.2% 70-1								/ ********** /
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM	·	***************************************			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/14/2011 ND		416	104	400	0.00	
Yen colom	mg,	'kg	Analyze	d By: AB		***************************************	**************************************		
Arvalyte	Realt	Reporting Limit	Arsalyzed	Method Blank	85	% Recovery	True Value QC	KPO	Qualifier
GRO C6-C 10	<10.0	10.0	04/14/2011	ND	222	111	200	1.35	
080 : C1 0-C28	<10.0	10.0	04/14/2011	ND	198	99.0	200	11.7	
Surogau: 1-Chlore susce	128% 70-130		}	- Albani inidani			C. CA		
Swingate: 1-Chlarooctadecane	127	% 70-130	J						

Cardinal Laboratories *=Accredited Analyte

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Coby D. Keene, Lao Director/Quality Manager

Page 7 of 11



Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240

Fax To: (\$05) 391-4585

Recaived:

04/12/2011

Sampling Date:

04/12/2011

Reported:

04/15/2011

Sampling Type:

Soil

Project Name:

TURNER B 103

Sampling Condition:

** (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Celey D. Keene

Project Location:

EDDY COUNTY, NEW MEXICO

Sample ID: SP #4 1' BGS (H100739-07)

STEX 80218	mg,	kg	Anai y ze	d By: CMS	***************************************				
Aralyte	Result	Reporting Limit	Analyzeci	Method Slank	65	% Recovery	True Value QC	RPO	Qualifier
Sanzene ^a	<0.050	0.050	04/14/2011	ND	1.99	99.5	2.00	2.35	
Toluene*	0.117	0.050	04/14/2011	ND	1.96	98.2	2.00	2.38	
Ethylbenzene*	2.04	0.050	04/14/2011	ND	1.97	98.3	2.00	1.51	
Total Xylenes*	5.99	0.150	04/14/2011	ND	5.80	96.7	6.00	1.46	
Surroyae: 4 Bromofluorobynzene (PIL	122% 70-130		,		***************************************	12 0 0 1 NAMES OF STREET			
Chloride, SM4500Cl-8	mg	kg	Analyze	d By: HM	·····	***************************************	***************************************	······································	***************************************
Analyt.	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value (X	RFD	Qualifier
Chloride	368	16.0	04/14/2011	NO	41.6	104	400	0.00	
TPH 8015M	mg.	′kg	Analyze	d By: AB	**************************************	((Canada)		**************************************	
Analyte	Result	Reporting Limit.	Analyzed	Method Blank	65	% Recovery	True Value QC	RPD	Qualifier
GRO C5-C10	243	50.0	04/14/2011	ND	222	1.11	200	1.35	
DRO >C10-C28	2330	50.0	04/14/2011	ND	198	99.0	200	11.7	
Surrogate, 1-Choroctos	108	8 70-730	;)			a waxaa ah a		Washington J. Company	
Surrogate, 1-Chloroocusdoesae	113	% 70-236)						

Cardinal Laboratories

*=Accredited Analyte

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Caley D. Keene, Lab Director/Quality Manager

Page 8 of 11



Hungry Horse Environmental **VERNON BLACK** P.O. Box 1058 Hol:bs NM, 88240

Fax To: (505) 391-4585

Received: Reported: 04/12/2011

04/15/2011

TURNER B 103

Project Name: Project Number:

EDDY COUNTY, NEW MEXICO

Project Location:

NONE GIVEN

Sampling Date:

04/12/2011

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celev D. Keene

Sample ID: SP #4 2' BGS (H100739-08)

STEX RO218	mg,	'kg	Analyze	d By: CMS				*****************************	
Analyte	Sesoft	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzone*	< 0.050 0.050		04/14/2011	NO	1.99	99.5	2.00	2.35	
Takane*	<0.050	0.050	04/14/2011	ND	1.96	98.2	2.00	2.38	
Ethylbenzene*	0.116 0.050		04/14/2011	NO	1.97	98.3	2.90	1.51	
Total Xylenes*	0.446 0.150		94/14/2011 ND		5.80	96.7	6.00	1.46	
Necrogate: 4-Berosoftweesbenzene (PIL	99.5 % 70-730			· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	ALL PROPERTY.	W
Chloride, SM4500CF-8	nig)	kg	Analyze	d By: HM	2000 10 10 10 10 10 10 10 10 10 10 10 10			***************************************	***************************************
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	Truc Value QC	RPD	Qualifier
Chica	<16.0	16.0	04/14/2011	ND	416	104	400	0.00	
TPH 6015M	mg,	kg	Analyze	d By: AB					
Arvivie	Result	Reporting Limit	Analyzesi	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
3RO C6-C10	25.0	10.0	04/14/2011	ND	222	111	200	1.35	
DRO >C10-C28	247 10.0		04/14/2011	ND	198	99.0	200	11.7	
Surrogate: 1-Chi reoctane	98.0	% 79-130							
Surrogate. 1 Chlerosetadorane	94.3	% 70-235	į						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 9 of 11



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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