

Bratcher, Mike, EMNRD

From: Vernon Black [vernon@hungry-horse.com]
Sent: Tuesday, May 17, 2011 9:54 AM
To: 'Allan Rambur'; dpotter@linenergy.com; 'Daniel Frick'; Bratcher, Mike, EMNRD; Terry_gregston@nm.blm.gov
Subject: FW: TURNER B #118
Attachments: H100970 HHE.pdf

Good Morning,

Please see the attached lab results from the confirmation sampling at the Turner B #118. Lab results indicate that the TPH and BTEX contaminants have been eliminated and/or reduced to closure levels. However, chloride levels are still above closure levels at SP1, SP3, West Road, SE and NM Corners of Pit Area.

At SP1, SP3, and the West Road, I recommend removing 2' more of the contaminated soil and conduct chloride field test. Should the field test indicate levels at or below closure levels, confirmation sampling will occur. Should the levels exceed closure levels, I recommend continuing the excavation in 2' lifts along with field testing for chlorides until we reach the point that chloride levels are at or below closure levels. At this point confirmation sampling will occur.

As for the chloride levels in the "old pit area" (SE/NW Corners) where the release ran across the pit. I'm very cautious about excavating in and/or around any antiquated pit area without very clear communication between all parties involved. During the initial remediation we did "scrape/remove" approximately 1' of soil from this area. Prior to removing this 1' of material, we exposed various parts of the pit area by hand in order to determine the nature of the exposed plastic. If this plastic was some type of cover and/or barrier, it was very evident that it's integrity was compromised prior to any remediation work conducted by Hungry Horse. As it stands, we have no way of knowing if the chlorides are a result of the release or the contents of the pit area. Having said this, we need to approach this area with caution and a clear plan. I recommend a representative from all three parties meet on site and let's come a clear decision as to the most effective and most efficient course of action for this sensitive area.

Boone Arch will be contacted to provided an Arch Monitor when work resumes.

Thanks,
Vernon K. Black
H.S.E.
Hungry Horse, LLC
Hobbs, NM
575 393 3386 office
575 631 2253 cell

From: Celey Keene [<mailto:celey.keene@cardinallabsnm.com>]
Sent: Monday, May 16, 2011 11:03 AM
To: 'Vernon Black'
Subject: TURNER B #118

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

May 16, 2011

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: TURNER B #118

Enclosed are the results of analyses for samples received by the laboratory on 05/12/11 15:55.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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:

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

Received:	05/12/2011	Sampling Date:	05/12/2011
Reported:	05/16/2011	Sampling Type:	Soil
Project Name:	TURNER B #118	Sampling Condition:	Cool & Intact
Project Number:	CONFIRMATION SAMPLES	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP #1 (H100970-01)

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/13/2011	ND	2.16	108	2.00	0.633		
Toluene*	<0.050	0.050	05/13/2011	ND	2.13	107	2.00	0.878		
Ethylbenzene*	<0.050	0.050	05/13/2011	ND	2.12	106	2.00	1.91		
Total Xylenes*	<0.150	0.150	05/13/2011	ND	6.36	106	6.00	1.59		

Surrogate: 4-Bromofluorobenzene (PIL) 94.5 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1580	16.0	05/13/2011	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/13/2011	ND	178	88.9	200	1.92		
DRO >C10-C28	<10.0	10.0	05/13/2011	ND	163	81.6	200	2.35		

Surrogate: 1-Chlorooctane 98.8 % 70-130

Surrogate: 1-Chlorooctadecane 95.7 % 70-130

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	05/12/2011	Sampling Date:	05/12/2011
Reported:	05/16/2011	Sampling Type:	Soil
Project Name:	TURNER B #118	Sampling Condition:	Cool & Intact
Project Number:	CONFIRMATION SAMPLES	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP #2 (H100970-02)

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/13/2011	ND	2.16	108	2.00	0.633		
Toluene*	<0.050	0.050	05/13/2011	ND	2.13	107	2.00	0.878		
Ethylbenzene*	<0.050	0.050	05/13/2011	ND	2.12	106	2.00	1.91		
Total Xylenes*	<0.150	0.150	05/13/2011	ND	6.36	106	6.00	1.59		

Surrogate: 4-Bromofluorobenzene (PIL) 91.3 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/13/2011	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/14/2011	ND	178	88.9	200	1.92		
DRO >C10-C28	<10.0	10.0	05/14/2011	ND	163	81.6	200	2.35		

Surrogate: 1-Chlorooctane 102 % 70-130

Surrogate: 1-Chlorooctadecane 99.9 % 70-130

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 05/12/2011
 Reported: 05/16/2011
 Project Name: TURNER B #118
 Project Number: CONFIRMATION SAMPLES
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/12/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP #3 (H100970-03)

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/13/2011	ND	2.16	108	2.00	0.633		
Toluene*	<0.050	0.050	05/13/2011	ND	2.13	107	2.00	0.878		
Ethylbenzene*	<0.050	0.050	05/13/2011	ND	2.12	106	2.00	1.91		
Total Xylenes*	<0.150	0.150	05/13/2011	ND	6.36	106	6.00	1.59		

Surrogate: 4-Bromofluorobenzene (PIL) 94.8 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4720	16.0	05/13/2011	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/14/2011	ND	178	88.9	200	1.92		
DRO >C10-C28	<10.0	10.0	05/14/2011	ND	163	81.6	200	2.35		

Surrogate: 1-Chlorooctane 102 % 70-130

Surrogate: 1-Chlorooctadecane 101 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	05/12/2011	Sampling Date:	05/12/2011
Reported:	05/16/2011	Sampling Type:	Soil
Project Name:	TURNER B #118	Sampling Condition:	Cool & Intact
Project Number:	CONFIRMATION SAMPLES	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MID POINT OF WEST RD (H100970-04)

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/13/2011	ND	2.16	108	2.00	0.633		
Toluene*	<0.050	0.050	05/13/2011	ND	2.13	107	2.00	0.878		
Ethylbenzene*	<0.050	0.050	05/13/2011	ND	2.12	106	2.00	1.91		
Total Xylenes*	<0.150	0.150	05/13/2011	ND	6.36	106	6.00	1.59		

Surrogate: 4-Bromofluorobenzene (PIL) 93.5 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2520	16.0	05/13/2011	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/14/2011	ND	178	88.9	200	1.92		
DRO >C10-C28	<10.0	10.0	05/14/2011	ND	163	81.6	200	2.35		

Surrogate: 1-Chlorooctane 105 % 70-130

Surrogate: 1-Chlorooctadecane 103 % 70-130

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Analytical Results For:

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

Received:	05/12/2011	Sampling Date:	05/12/2011
Reported:	05/16/2011	Sampling Type:	Soil
Project Name:	TURNER B #118	Sampling Condition:	Cool & Intact
Project Number:	CONFIRMATION SAMPLES	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: TERMINUS PT ON W ROAD (H100970-05)

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/13/2011	ND	2.16	108	2.00	0.633		
Toluene*	<0.050	0.050	05/13/2011	ND	2.13	107	2.00	0.878		
Ethylbenzene*	<0.050	0.050	05/13/2011	ND	2.12	106	2.00	1.91		
Total Xylenes*	<0.150	0.150	05/13/2011	ND	6.36	106	6.00	1.59		

Surrogate: 4-Bromofluorobenzene (PIL) 93.0 % 70-130

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/13/2011	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/14/2011	ND	178	88.9	200	1.92		
DRO >C10-C28	34.3	10.0	05/14/2011	ND	163	81.6	200	2.35		

Surrogate: 1-Chlorooctane 103 % 70-130

Surrogate: 1-Chlorooctadecane 100 % 70-130

Sample ID: NE PIT AREA (H100970-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	05/13/2011	ND	448	112	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	05/12/2011	Sampling Date:	05/12/2011
Reported:	05/16/2011	Sampling Type:	Soil
Project Name:	TURNER B #118	Sampling Condition:	Cool & Intact
Project Number:	CONFIRMATION SAMPLES	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SE PIT AREA (H100970-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6640	16.0	05/13/2011	ND	448	112	400	0.00		

Sample ID: NW PIT AREA (H100970-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1810	16.0	05/13/2011	ND	448	112	400	0.00		

Sample ID: SW PIT AREA (H100970-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/13/2011	ND	448	112	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
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

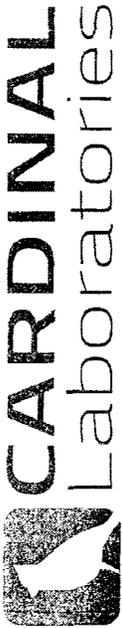
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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO		ANALYSIS REQUEST										
Company Name: <u>Raytheon</u>		P.O. #:										
Project Manager: <u>David B. ...</u>		Company:										
Address: <u>Hobbs, NM</u>		Attn:										
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Address:										
Phone #: <u>505-233-5786</u> Fax #: <u>505-393-2476</u>		City:										
Project #: <u>101-127-R</u> Project Owner: <u>Raytheon</u>		State:										
Project Name: <u>...</u>		Phone #:										
Project Location: <u>...</u>		Fax #:										
Sampler Name: <u>...</u>												
FOR LAB USE ONLY		MATRIX		PRESERVE		SAMPLING		DATE		TIME		
Lab I.D.		WASTEWATER		ICE / COOL		OTHER		11/15/02		11:00		
Sample I.D.		GROUNDWATER		ACID/BASE		OTHER		11/15/02		11:00		
1		WASTEWATER		OTHER		SLUDGE		11/15/02		11:00		
2		GROUNDWATER		OTHER		OIL		11/15/02		11:00		
3		WASTEWATER		OTHER		SOIL		11/15/02		11:00		
4		GROUNDWATER		OTHER		WASTEWATER		11/15/02		11:00		
5		WASTEWATER		OTHER		SLUDGE		11/15/02		11:00		
6		GROUNDWATER		OTHER		OIL		11/15/02		11:00		
7		WASTEWATER		OTHER		SOIL		11/15/02		11:00		
8		GROUNDWATER		OTHER		WASTEWATER		11/15/02		11:00		
9		WASTEWATER		OTHER		SLUDGE		11/15/02		11:00		

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Relinquished By: [Signature] Date: 11/15/02 Time: 11:00

Received By: [Signature] Date: 11/15/02 Time: 11:00

Relinquished By: [Signature] Date: 11/15/02 Time: 11:00

Received By: [Signature] Date: 11/15/02 Time: 11:00

Delivered By: (Circle One) 30

Sampler - UPS - Bus - Other: 30

Sample Condition: Cool Yes No Intact Yes No

CHECKED BY: [Signature] (Initials) JD

Phone Result: Yes No Add'l Phone #:

Fax Result: Yes No Add'l Fax #:

REMARKS:

Bratcher, Mike, EMNRD

From: Vernon Black [vernon@hungry-horse.com]
Sent: Wednesday, May 04, 2011 8:39 AM
To: Terry_gregston@nm.blm.gov; Bratcher, Mike, EMNRD; 'Daniel Frick';
dpotter@linnenergy.com
Subject: Turner B #118 and Turner B #47

Boone Arch has completed the arch surveys on the two locations referenced above. The Turner B #47 was given a clearance to begin with no arch restraints. We plan to mobilize equipment to the site and start excavation on Friday or Monday. The Turner B #118 will require an arch monitor during excavation. We plan to start excavation on the #118 on Monday morning. It should only take 1-2 days to complete the excavation. Boone Arch will have a monitor on site beginning Monday morning.

Thanks,
Vernon

Bratcher, Mike, EMNRD

From: tgregsto@blm.gov
Sent: Thursday, March 24, 2011 4:43 PM
To: Bratcher, Mike, EMNRD
Subject: turner B 118 spill
Attachments: Turner B 118-spill map-021711.jpg

*Do not
Image this
email - map
OK*

Mike,

This is an older Linn Energy spill that I have been meaning to check with you on. I may have already done so? If not, here is the spill map to the Turner B 118 spill.

I have a number of Linn Energy spills that I have not received spill reports on. I spent this morning on the phone with their corporate office about that specific issue, as well as not moving forward with clean up of spills on the ground. I have a list of about 14 spills for Linn, only one of which I have recieved a spill cleanup report on...which I rejected as being inadequate. So I am pressuring them to submit written reports to both us and the OCD on all of these spills, as well as to move forward with cleanup plans and actions.

The Turner B 118 spill emits from a federal well but most of the spill is on state land. At the time of my first assessment, most of the spill had been covered up by Linn field personnel, and that is not the first time that has occurred. Dennis Potter, Linn Energy, is currently putting forward an aggressive attempt to change the bad field habits of old Merit Energy personnel acquired by Linn Energy. But I am afraid that is an uphill battle. My conversation with Linn Energy corporate office was in regards to that specific issue and Linn corporate has agreed to look into and to aggressively persue the matter.

I also sent 9 INCs and 2 Written Orders to Linn Energy (which triggered the phone call today), all of which were in regards to failure to submit spill reports, failure to delineate, failure to submit cleanup plans on various spills. So Linn has been given a federal incentive to submit spill reports on all the outstanding spills and to forward copies of those reports to the OCD. So, you probably don't have a report on the Turner B 118 spill...because neither do I.

At the time of my inspection on this particular well, the spill had been backdragged, clean material had been robbed from surrounding sand dunes and placed on top, and clean caliche had been placed atop the spill on the pad and the road. The spill was fresh enough, however, that I could track the tracks of the coverup at least. I told Dennis Potter the day of my inspection that Linn would have to dig out the spill and haul the spill material and any cross contaminated material off as well. That hasn't happened yet, but it will.

So. Here is the spill map that I created during my onsite on 02/17/11...on the spill map, it is marked as a saltwater spill but there was a great deal of oil associated with the spill. It may have been mostly oil, hard to say. Also, at the terminus of the spill path in the northwest, there was still a large pool of oil just off the road that the Linn field personnel had missed in their coverup.

If I have forwarded this to you before, forgive the duplication. Figure double is better than nothing...

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