

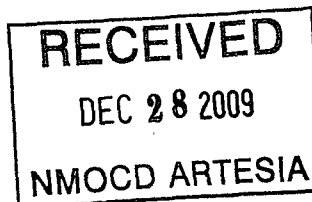


CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

October 14, 2009

Ray Martin
TNT Backhoe
P.O. Box 133
Artesia, NM 88211



Re: ST 647-711 #89

Enclosed are the results of analyses for sample number H18428, received by the laboratory on 10/07/09 at 2:10 pm.

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 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 7 (includes Chain of Custody)

Sincerely,

Celey D. Keene
Laboratory Director



ARDINAL LABORATORIES

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ANALYTICAL RESULTS FOR
TNT BACKHOE
ATTN: RAY MARTIN
P.O. BOX 133
ARTESIA, NM 88211
FAX TO: (575) 746-0807

Receiving Date: 10/07/09
Reporting Date: 10/12/09
Project Owner: MELROSE
Project Name: ST C47-711 #89
Project Location: NOT GIVEN

Analysis Date: 10/08/09
Sampling Date: 10/06/09
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 3°C
Sample Received By: CK
Analyzed By: HM

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/kg)
H18428-1	#1 11"	2,520
H18428-2	#2 SURFACE	13,800
H18428-3	#2 16"	4,480
H18428-4	#3 SURFACE	6,960
H18428-5	#3 14"	1,120
H18428-6	#4 SURFACE	1,570
H18428-7	#4 13"	9,000
H18428-8	#5 SURFACE	12,000
H18428-9	#5 16"	6,240
H18428-10	#6 SURFACE	31,600
H18428-11	#6 16"	12,200
H18428-12	#7 SURFACE	15,200
H18428-13	#7 12"	8,600
H18428-14	#8 SURFACE	7,800
H18428-15	#8 17"	5,200
H18428-16	#9 SURFACE	<16
H18428-17	#9 14"	144
H18428-18	#10 SURFACE	416
H18428-19	#10 11"	2,040
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		2.0

METHOD: Standard Methods

4500-Cl⁻B

NOTE: Analysis performed on a 1:4 w:v aqueous extract.


Chemist


Date

H18428 CL TNT



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ANALYTICAL RESULTS FOR
TNT BACKHOE
ATTN: RAY MARTIN
P.O. BOX 133
ARTESIA, NM 88211
FAX TO: (575) 746-0807

Receiving Date: 10/07/09
Reporting Date: 10/12/09
Project Owner: MELROSE
Project Name: ST C47-711 #89
Project Location: NOT GIVEN

Sampling Date: 10/06/09
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 3.0°C
Sample Received By: CK
Analyzed By: AB

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (C ₁₀ -C ₂₈) (mg/kg)
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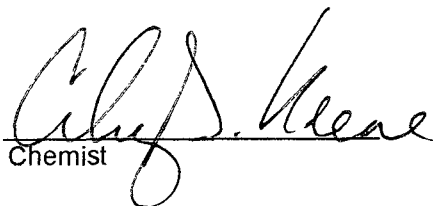
ANALYSIS DATE		10/09/09	10/09/09
H18428-2*	#2 SURFACE	320	1,760
H18422-4*	#3 SURFACE	<10.0	<10.0
H18422-6*	#4 SURFACE	<10.0	16.5
H18422-8	#5 SURFACE	<10.0	375
H18422-10*	#6 SURFACE	<10.0	608
H18422-12	#7 SURFACE	<10.0	13.1
H18422-14	#8 SURFACE	<10.0	85.4
Quality Control		455	454
True Value QC		500	500
% Recovery		91.0	90.8
Relative Percent Difference		4.2	<0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M

Reported on wet weight.

*TPH surrogates outside historical limits due to matrix interference.

Not accredited for GRO/DRO.


Chemist


Date

H18428 T TNT

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TNT BACKHOE

ATTN: RAY MARTIN

P.O. BOX 133

ARTESIA, NM 88211

FAX TO: (575) 746-0807

Receiving Date: 10/07/09

Reporting Date: 10/12/09

Project Owner: MELROSE

Project Name: ST C47-711 #89

Project Location: NOT GIVEN

Sampling Date: 10/06/09

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 3.0°C

Sample Received By: CK

Analyzed By: AB

[illegible]

ANALYSIS DATE		10/09/09	10/09/09
H18428-16	#9 SURFACE	<10.0	<10.0
H18422-18	#10 SURFACE	<10.0	<10.0
Quality Control		506	543
True Value QC		500	500
% Recovery		101	109
Relative Percent Difference		8.7	1.9

METHODS: TPH GRO & DRO: EPA SW-846 8015 M

Reported on wet weight.

Not accredited for GRO/DRO.

Chapman S. Keene
Chemist

Date _____

H18428 T TNT

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ANALYTICAL RESULTS FOR
TNT BACKHOE
ATTN: RAY MARTIN
P.O. BOX 133
ARTESIA, NM 88211
FAX TO (575) 746-0807

Receiving Date: 10/07/09
Reporting Date: 10/12/09
Project Owner: MELROSE
Project Name: ST C47-711 #89
Project Location: NOT GIVEN


Sampling Date: 10/06/09
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 3°C
Sample Received By: CK
Analyzed By: ZL

LAB NO.	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE:		10/10/09	10/10/09	10/10/09	10/10/09
H18428-2	#2 SURFACE	<0.050	0.381	<0.050	15.3
H18428-4	#3 SURFACE	<0.050	<0.050	<0.050	<0.300
H18428-6	#4 SURFACE	<0.050	<0.050	<0.050	<0.300
H18428-8	#5 SURFACE	<0.050	<0.050	<0.050	<0.300
H18428-10	#6 SURFACE	<0.050	<0.050	<0.050	<0.300
H18428-12	#7 SURFACE	<0.050	<0.050	<0.050	<0.300
H18428-14	#8 SURFACE	<0.050	<0.050	<0.050	<0.300
H18428-16	#9 SURFACE	<0.050	0.062	0.066	<0.300
H18428-18	#10 SURFACE	<0.050	0.057	<0.050	<0.300
Quality Control		0.054	0.051	0.052	0.154
True Value QC		0.050	0.050	0.050	0.150
% Recovery		108	102	104	103
Relative Percent Difference		1.9	<1.0	<1.0	1.7

METHODS: BTEX - SW-846 8021B. Reported on wet weight.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES.


Lab Director


Date

H18428 BTEX TNT

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 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.



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Page 1[illegible]

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Sampler Relinquished:		Date: _____		Received By: _____		Phone Result: <input type="checkbox"/> No Add'l Phone #: _____	
		Time: _____				Fax Result: <input type="checkbox"/> No Add'l Fax #: _____	
Relinquished By: _____		Date: 10/7/09		Received By: _____		REMARKS:	
Lisli T. Horton Sr.		Time: 2:10		_____			
Delivered By: (Circle One)		Temp. 3.0°C		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>			
Sampler - UPS - Bus - Other:				CHECKED BY: (Initials) <i>CDL</i>			

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



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Page 10

Company Name:						BILL TO								ANALYSIS REQUEST						
Project Manager:						P.O.#:														
Address:						Company:														
City:						Attn:														
Phone #:						Address:														
Project #:						City:														
Project Name:						State: Zip:														
Project Location:						Phone #:														
Sampler Name:						Fax #:														
LAB USE ONLY						MATRIX	PRESERV.	SAMPLING												
Lab I.D.	Sample I.D.					(G)RAB OR (C)OMP # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER	ACID/BASE ICE / COOL OTHER	DATE	TIME										
H18428-10	#6 Surface					✓		✓	10/6/09	11:37	✓	✓	C1-							
-11	#6 16"									11:39			✓							
-12	#7 Surface									11:47	✓	✓	✓							
-13	#7 12"									11:47			✓							
-14	#8 Surface									11:57	✓	✓	✓							
-15	#8 17"									11:56			✓							
-16	#9 Surface									12:01	✓	✓	✓							
-17	#9 14"									12:03			✓							
-18	#10 Surface									12:11	✓	✓	✓							
-19	#10 " "									12:10			✓							

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Relinquished By: _____ Date: _____ Time: _____		Received By: _____ Date: _____ Time: _____		Phone Result: <input type="checkbox"/> No Add'l Phone #: _____ Fax Result: <input type="checkbox"/> No Add'l Fax #: _____ REMARKS: _____	
Relinquished By: _____ Date: 10/2/09 Time: 2:10 Delivered By: (Circle One) _____ Sampler - UPS - Bus - Other: _____		Received By: _____ Date: 10/2/09 Time: 2:10 Temp. 3°C Sample Condition: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Coolant Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: _____ (Initials) <i>CSH</i>	

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PHONE (575) 393 2326 • 101 E. MARLAND • HOBBS, NM 88240

December 23, 2009

Gary Newton
Melrose Operating
1000 W. Wilshire Blvd.
Oklahoma City, OK 73116

RECEIVED**DEC 28 2009****NMOCD ARTESIA**

Re: State 647 AC 711 #89

Enclosed are the results of analyses for sample number H18911, received by the laboratory on 12/18/09 at 1:45 pm.

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 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 4 (includes Chain of Custody)

Sincerely,

Celey D. Keene
Laboratory Director

This report conforms with NELAP requirements.



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
MELROSE OPERATING
ATTN: GARY NEWTON
1000 W. WILSHIRE BLVD.
OKLAHOMA CITY, OK 73116
FAX TO: (575) 234-0376

Receiving Date: 12/18/09
Reporting Date: 12/22/09
Project Number: 30-015-02055
Project Name: STATE 647 AC 711 #89
Project Location: NOT GIVEN

Analysis Date: 12/21/09
Sampling Date: 12/18/09
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 4.5C
Sample Received By: AB
Analyzed By: HM

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/kg)
H18911-1	1-SURFACE	320
H18911-2	2-SURFACE	480
H18911-3	3-SURFACE	160
H18911-4	4-SURFACE	864
H18911-5	5-SURFACE	33,600
H18911-6	6-SURFACE	18,800
H18911-7	7-SURFACE	23,800
H18911-8	8-SURFACE	13,400
H18911-9	9-SURFACE	176
H18911-10	1-18"	2,720
H18911-11	2-18"	352
H18911-12	3-18"	192
H18911-13	4-18"	4,160
H18911-14	5-18"	13,400
H18911-15	6-18"	9,900
H18911-16	7-18"	12,900
H18911-17	8-18"	11,200
H18911-18	9-18"	256
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		< 0.1

METHOD/Standard Methods

4500-ClB

NOTE: Analyses performed on 1:4 w/v aqueous extracts.

C. J. Kenna
Chemist

Date

12/23/09

H18911 MELROSE

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Page 1 of 2

[illegible][illegible]

Sampler Relinquished:		Date: 12/18/09	Received By: [Signature]	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
X Fred Mermis		Time: 1:45p		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS: Email results to Gary + Sherry	
Time:					
Delivered By: (Circle One)		Temp: #26 4.5°C	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	CHECKED BY: [Signature]	
Sampler - UPS - Bus - Other			Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		

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CARDINAL LABORATORIES

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Page 2 of 2

Company Name:		BILL TO		ANALYSIS REQUEST															
Project Manager:		P.O. #:																	
Address:		Company:																	
City:		Attn:																	
Phone #:		Address:																	
Project #:		City:																	
Project Name:		State:																	
Project Location:		Zip:																	
Sampler Name:		Phone #:																	
Fax #:																			
Lab I.D.	Sample I.D.	(GRAB OR COMPOUND)	MATRIX	PRESERV	SAMPLING														
		# CONTAINERS	GROUNDWATER WASTE WATER SOIL OIL SLUDGE OTHER	ACID/BASE ICE / COOL OTHER	DATE	TIME													
H18911-10	1-18"	1	X		12/18/09	11:00	X												
-11	2-18"																		
-12	3-18"																		
-13	4-18"																		
-14	5-18"																		
-15	6-18"																		
-16	7-18"																		
-17	8-18"																		
-18	9-18"					12:00													

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Sampler Relinquished: <i>Fred M. Morris</i> Relinquished By: <i>Fred M. Morris</i> Date: 12/18/09 Time: 1:45p Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>#16</i>	Received By: <i>CB</i> Date: <i>12/18/09</i> Time: <i>4:50</i> Sample Condition: Cool Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Checked By: <i>CB</i>	Phone Result: <input type="checkbox"/> No Fax Result: <input type="checkbox"/> No Add'l Phone #: Add'l Fax #: REMARKS:
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