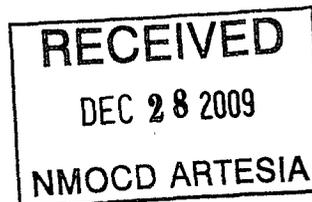




October 14, 2009

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

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

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.

Cheryl Keene
Chemist

Date 10/14/09

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

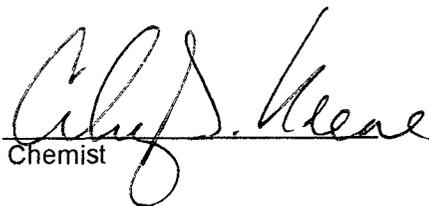
Receiving Date: 10/07/09
Reporting Date: 10/12/09
Project Owner: MELROSE
Project Name: ST C47-711 #89
Project Location: NOT GIVEN

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

		GRO	DRO
		(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)
LAB NUMBER	SAMPLE ID	(mg/kg)	(mg/kg)

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.


Cheryl Heene
Chemist


Date 10/14/09

H18428 T TNT

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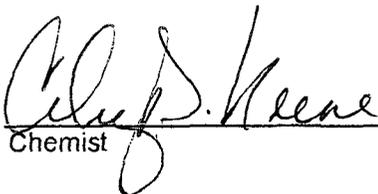
ANALYTICAL RESULTS FOR
TNT BACKHOE
ATTN: RAY MARTIN
P.O. BOX 133
ARTESIA, NM 88211
FAX TO: (575) 746-0807

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 @ 3.0°C
Sample Received By: CK
Analyzed By: AB

LAB NUMBER	SAMPLE ID	GRO	DRO
		(C ₆ -C ₁₀) (mg/kg)	(>C ₁₀ -C ₂₈) (mg/kg)
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.


Cheryl S. Keene
Chemist


Date 10/14/09

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

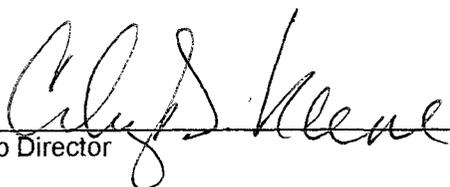
Receiving Date: 10/07/09
 Reporting Date: 10/12/09
 Project Owner: MELROSE
 Project Name: ST C47-711 #89
 Project Location: NOT GIVEN

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

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ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 Fax (575) 393-2476

Company Name: <u>TNT Bachhoe</u>		BILL TO		ANALYSIS REQUEST											
Project Manager: <u>Randy Martin</u>		P.O. #:													
Address: <u>PO BOX 0133 1703 N. Roselawn</u>		Company:													
City: <u>Artesia</u> State: <u>NM</u> Zip: <u>88211</u>		Attn:													
Phone #: _____ Fax #: <u>575-746-0807</u>		Address:													
Project #: _____ Project Owner: <u>Melrose</u>		City:													
Project Name: <u>ST C47-711 #89</u>		State: _____ Zip: _____													
Project Location: _____		Phone #: _____													
Sampler Name: _____		Fax #: _____													

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						PRESERV.	SAMPLING		DATE	TIME	BTEX	TPH 2015	CI
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER					
H18428-1	#1 Surface ^{ck 10/17}											10/6/09	10:50				
-2	#1 11"												11:00	✓	✓	✓	
-3	#2 Surface 16"												10:54	✓	✓	✓	
-4	#3 Surface 14"												11:20	✓	✓	✓	
-5	#3 14"												11:21	✓	✓	✓	
-6	#4 Surface 13"												11:26	✓	✓	✓	
-7	#4 13"												11:28	✓	✓	✓	
-8	#5 Surface 16"												11:32	✓	✓	✓	
-9	#5 16"												11:34	✓	✓	✓	

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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 #: _____	
REMARKS: _____			
Relinquished By: _____ Date: <u>10/7/09</u> Received By: _____			
Time: <u>2:10</u>			
Delivered By: (Circle One) _____ Temp. <u>3.0°C</u>		Sample Condition	
Sampler - UPS - Bus - Other: _____		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	
		Yes <input type="checkbox"/> No <input type="checkbox"/>	
		Checked By: (Initials) <u>cdk</u>	

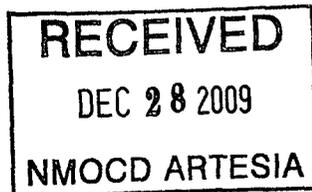
† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



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



Re: State 647 AC 711 #89

Enclosed are the results of analysis 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 IX 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.

Celina Kerna
Chemist

12/23/09
Date

H18911 MELROSE

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CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 Fax (575) 393-2476

Company Name:		BILL TO				ANALYSIS REQUEST																					
Project Manager:		P.O. #:																									
Address:		Company:																									
City:	State:	Zip:	Attn:																								
Phone #:	Fax #:		Address:																								
Project #:	Project Owner:		City:																								
Project Name:			State:		Zip:																						
Project Location:			Phone #:																								
Sampler Name:			Fax #:																								
FOR LAB USE ONLY				MATRIX		PRESERV		SAMPLING																			
Lab I.D.	Sample I.D.	(GRAB OR COMPOUND)	# CONTAINERS	GROUNDWATER	WASTE WATER	SOIL	OIL	SILUDGE	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:	Date: 12/18/09	Received By: <i>CB</i>	Phone Result: <input type="checkbox"/>	No	Add'l Phone #:
<i>Fred Williams</i>	Time: 1:45p		Fax Result: <input type="checkbox"/>	No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:		
	Time:				
Delivered By: (Circle One)	Temp.	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	#76 4.5°C	Cool Intact	(Initials)		
		<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes	<i>CB</i>		
		<input type="checkbox"/> No <input type="checkbox"/> No			

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CARDINAL LABS

5753932476

12/28/2009 10:46