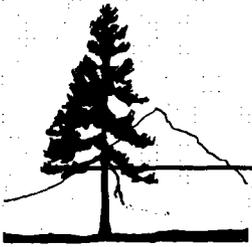


**NM1 - 8**

**MONITORING  
REPORT**

**YEAR(S):**

**2016-2017**



**T-n-T Environmental**

HCR 74 Box 113 - Lindrieth, NM 87029  
OCD Permit • NM 01-0008

RECEIVED OCD

2016 SEP 15 A 2:41

**9-12-2016**

**Brad Jones**  
Oil Conservation Division Santa Fe, New Mexico 87505  
1220 S. St. Francis Drive

**Re: Quarterly Vadose zone monitoring , Semi-annual Treatment zone monitoring results for T-n-T Environmental Land Farm, Permit NM1-008. Located at SE /4 of section 7 and SW/4 of Section 8 (Evaporation Ponds) and SW /4 and SE /4 NW 4 of Section 5 and NE /4 NW 4 of Section 8 ( Land Farm), Township 25N, R3 W, NNPM, Rio Arriba County, New Mexico.**

Dear Mr. Jones

**Inclosed is the test results for May 31<sup>st</sup> 2016 Quarterly Vadose zone and Semi-annual Treatment zone.**

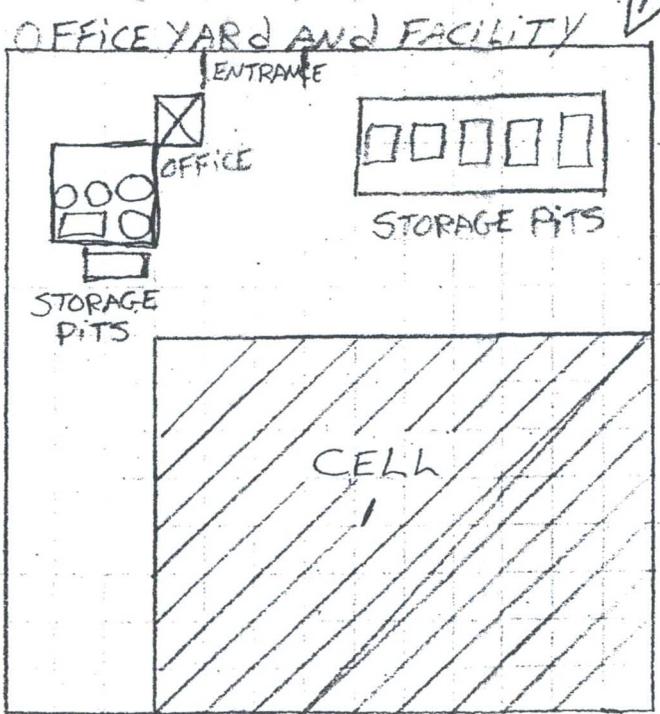
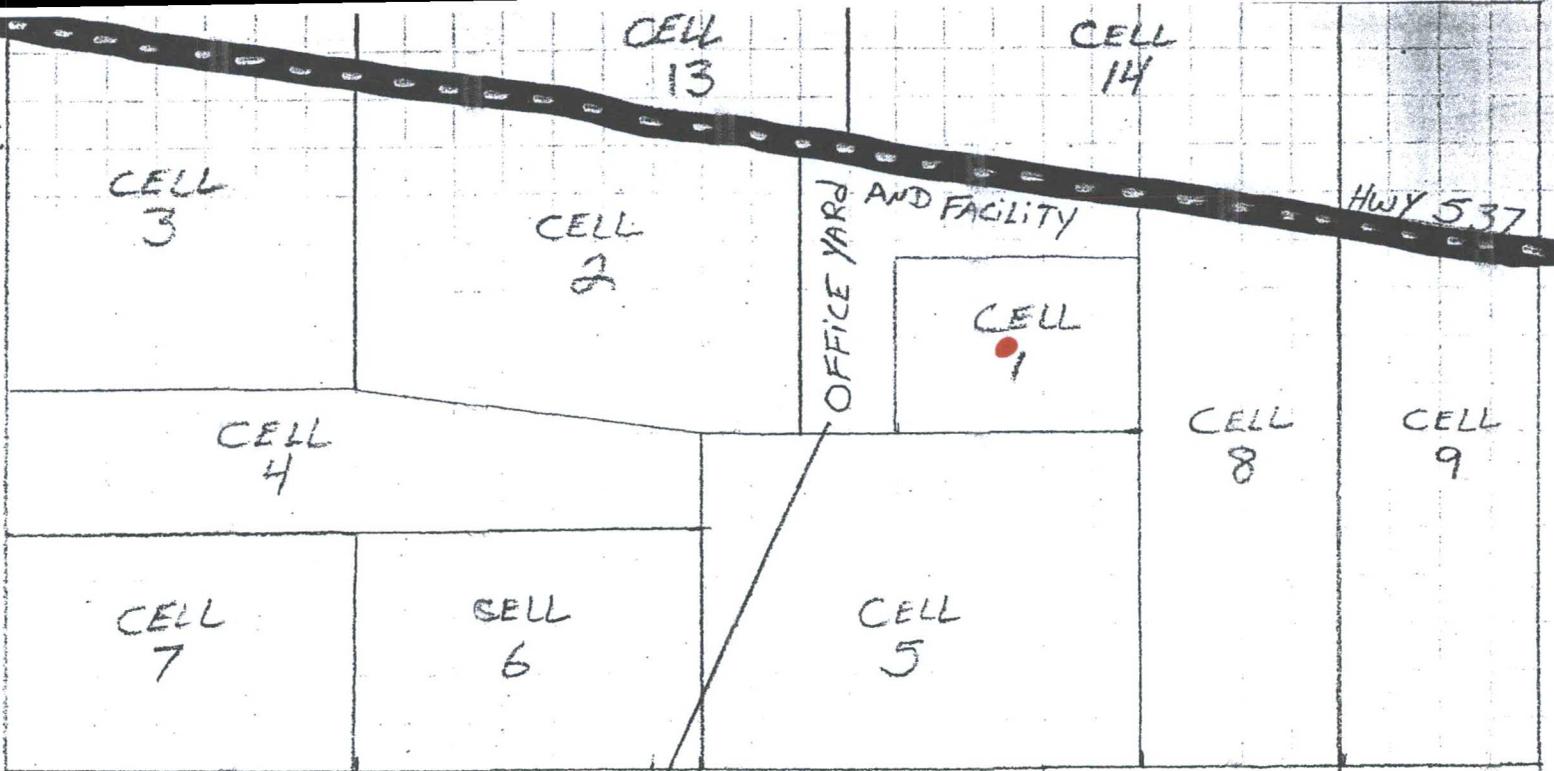
Sincerely,

**Tony Schmitz**



T-N-T ENVIRONMENTAL INC  
7005 TO RD  
LINDRITH NM 87029

HAND FARM MAP  
PERMIT # NM-01-0008  
SEC. 5 & 8 T25N R3W



DATE 2010  
7/20/16

VADOSE



August 11, 2016

CRAIG SCHMITZ

T-N-T ENVIRONMENTAL

70 OJITO ROAD

LINDRITH, NM 87029

RE: QUARTERLY VADOZE

Enclosed are the results of analyses for samples received by the laboratory on 07/27/16 9:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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 [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html)

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Coliort MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

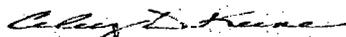
**Analytical Results For:**T-N-T ENVIRONMENTAL  
70 OJITO ROAD  
LINDRITH NM, 87029Project: QUARTERLY VADOZE  
Project Number: NONE GIVEN  
Project Manager: CRAIG SCHMITZ  
Fax To: (575) 774-9116Reported:  
11-Aug-16 12:15

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CELL # 1	H601671-01	Soil	20-Jul-16 09:00	27-Jul-16 09:00

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 11-Aug-16 12:15

**CELL # 1**

H601671-01 (Soil)

Analyte	Result	MDE	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

**Cardinal Laboratories**
**Inorganic Compounds**

Alkalinity, Bicarbonate	244		20.0	mg/kg	4	6080508	AP	05-Aug-16	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	4	6080508	AP	05-Aug-16	310.1M	
Chloride	<16.0		16.0	mg/kg	4	6072703	AC	28-Jul-16	4500-Cl-B	
Conductivity	59.4		1.00	uS/cm	1	6072209	AP	02-Aug-16	120.1	
pH*	7.51		0.100	pH Units	1	6080202	AP	02-Aug-16	9045	
Sulfate	<200		200	mg/kg	20	6080303	AP	03-Aug-16	375.4	
Alkalinity, Total	200		4.00	mg/kg	4	6080508	AP	05-Aug-16	310.1M	

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	6072801	MS	28-Jul-16	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6072801	MS	28-Jul-16	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6072801	MS	28-Jul-16	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6072801	MS	28-Jul-16	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6072801	MS	28-Jul-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			103 %	73.6-140		6072801	MS	28-Jul-16	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	6072802	MS	28-Jul-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6072802	MS	28-Jul-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6072802	MS	28-Jul-16	8015B	
Surrogate: 1-Chlorooctane			66.9 %	35-147		6072802	MS	28-Jul-16	8015B	
Surrogate: 1-Chlorooctadecane			72.2 %	28-171		6072802	MS	28-Jul-16	8015B	

**Green Analytical Laboratories**
**General Chemistry**

% Dry Solids	94.7			%	1	B608042	BDV	03-Aug-16	EPA160.3/16	H2
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**Cardinal Laboratories**

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 11-Aug-16 12:15

**CELL # 1**  
**H601671-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories**
**Total Metals by ICP**

Arsenic	<10.0		10.0	mg/kg dry	100	B608048	LLG	04-Aug-16	6010B	
Barium	121		1.00	mg/kg dry	100	B608048	LLG	04-Aug-16	6010B	
Cadmium	<5.00		5.00	mg/kg dry	100	B608048	LLG	04-Aug-16	6010B	
Calcium	3350		10.0	mg/kg dry	100	B608048	LLG	04-Aug-16	6010B	
Chromium	16.6		5.00	mg/kg dry	100	B608048	LLG	04-Aug-16	6010B	
Lead	<10.0		10.0	mg/kg dry	100	B608048	LLG	04-Aug-16	6010B	
Magnesium	3490		100	mg/kg dry	100	B608048	LLG	04-Aug-16	6010B	
Potassium	1810		200	mg/kg dry	100	B608048	LLG	04-Aug-16	6010B	
Selenium	<20.0		20.0	mg/kg dry	100	B608048	LLG	04-Aug-16	6010B	
Silver	<5.00		5.00	mg/kg dry	100	B608048	LLG	04-Aug-16	6010B	
Sodium	<200		200	mg/kg dry	100	B608048	LLG	04-Aug-16	6010B	

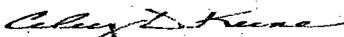
**Total Mercury by CVAA**

Mercury	<0.106		0.106	mg/kg dry	500	B608046	LLG	08-Aug-16	EPA7471	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 11-Aug-16 12:15

**Inorganic Compounds - Quality Control**  
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6072209 - General Prep - Wet Chem**
**LCS (6072209-BS1)**

Prepared &amp; Analyzed: 02-Aug-16

Conductivity	495		uS/cm	500		99.0	80-120			
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**Duplicate (6072209-DUP1)**

Source: H601518-02

Prepared &amp; Analyzed: 02-Aug-16

Conductivity	1060	1.00	uS/cm		1050			1.32	20	
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**Batch 6072703 - 1:4 DI Water**
**Blank (6072703-BLK1)**

Prepared: 26-Jul-16 Analyzed: 27-Jul-16

Chloride	ND	16.0	mg/kg							
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**LCS (6072703-BS1)**

Prepared: 26-Jul-16 Analyzed: 27-Jul-16

Chloride	400	16.0	mg/kg	400		100	80-120			
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**LCS Dup (6072703-BSD1)**

Prepared: 26-Jul-16 Analyzed: 27-Jul-16

Chloride	400	16.0	mg/kg	400		100	80-120	0.00	20	
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**Batch 6080202 - General Prep - Wet Chem**
**LCS (6080202-BS1)**

Prepared &amp; Analyzed: 02-Aug-16

pH	7.02		pH Units	7.00		100	90-110			
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**Duplicate (6080202-DUP1)**

Source: H601681-01

Prepared &amp; Analyzed: 02-Aug-16

pH	7.29	0.100	pH Units		7.27			0.275	20	
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**Batch 6080303 - 1:4 DI Water**
**Blank (6080303-BLK1)**

Prepared &amp; Analyzed: 03-Aug-16

Sulfate	ND	10.0	mg/kg							
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 11-Aug-16 12:15

**Inorganic Compounds - Quality Control**
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6080303 - 1:4 DI Water**
**LCS (6080303-BS1)**

Prepared &amp; Analyzed: 03-Aug-16

Sulfate	18.2	10.0	mg/kg	20.0		90.8	80-120			
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**LCS Dup (6080303-BSD1)**

Prepared &amp; Analyzed: 03-Aug-16

Sulfate	18.2	10.0	mg/kg	20.0		91.0	80-120	0.275	20	
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**Batch 6080508 - General Prep - Wet Chem**
**Blank (6080508-BLK1)**

Prepared &amp; Analyzed: 05-Aug-16

Alkalinity, Carbonate	ND	1.00	mg/kg							
Alkalinity, Bicarbonate	ND	5.00	mg/kg							
Alkalinity, Total	ND	1.00	mg/kg							

**LCS (6080508-BS1)**

Prepared &amp; Analyzed: 05-Aug-16

Alkalinity, Carbonate	ND	1.00	mg/kg				80-120			
Alkalinity, Bicarbonate	126	5.00	mg/kg				80-120			
Alkalinity, Total	104	1.00	mg/kg	100		104	80-120			

**LCS Dup (6080508-BSD1)**

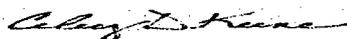
Prepared &amp; Analyzed: 05-Aug-16

Alkalinity, Carbonate	ND	1.00	mg/kg				80-120		20	
Alkalinity, Bicarbonate	126	5.00	mg/kg				80-120	0.00	20	
Alkalinity, Total	104	1.00	mg/kg	100		104	80-120	0.00	20	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 QJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 11-Aug-16 12:15

**Volatile Organic Compounds by EPA Method 8021 - Quality Control**
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 6072801 - Volatiles**
**Blank (6072801-BLK1)**

Prepared &amp; Analyzed: 28-Jul-16

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0513		mg/kg	0.0500		103	73.6-140			

**LCS (6072801-BS1)**

Prepared &amp; Analyzed: 28-Jul-16

Benzene	2.32	0.050	mg/kg	2.00		116	82.6-122			
Toluene	2.36	0.050	mg/kg	2.00		118	72.9-122			
Ethylbenzene	2.27	0.050	mg/kg	2.00		113	65.4-131			
Total Xylenes	6.81	0.150	mg/kg	6.00		114	73.8-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0515		mg/kg	0.0500		103	73.6-140			

**LCS Dup (6072801-BSD1)**

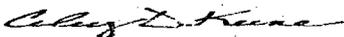
Prepared &amp; Analyzed: 28-Jul-16

Benzene	2.34	0.050	mg/kg	2.00		117	82.6-122	0.836	8.23	
Toluene	2.38	0.050	mg/kg	2.00		119	72.9-122	0.985	8.71	
Ethylbenzene	2.29	0.050	mg/kg	2.00		115	65.4-131	1.15	9.46	
Total Xylenes	6.89	0.150	mg/kg	6.00		115	73.8-125	1.08	8.66	
Surrogate: 4-Bromofluorobenzene (PID)	0.0507		mg/kg	0.0500		101	73.6-140			

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 11-Aug-16 12:15

**Petroleum Hydrocarbons by GC FID - Quality Control**  
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 6072802 - General Prep - Organics</b>										
<b>Blank (6072802-BLK1)</b>										
Prepared & Analyzed: 28-Jul-16										
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	47.2		mg/kg	50.0		94.5	35-147			
Surrogate: 1-Chlorooctadecane	49.7		mg/kg	50.0		99.4	28-171			
<b>LCS (6072802-BS1)</b>										
Prepared & Analyzed: 28-Jul-16										
GRO C6-C10	196	10.0	mg/kg	200		98.0	76.7-115			
DRO >C10-C28	214	10.0	mg/kg	200		107	78.3-122			
Total TPH C6-C28	410	10.0	mg/kg	400		103	79.8-117			
Surrogate: 1-Chlorooctane	49.9		mg/kg	50.0		99.8	35-147			
Surrogate: 1-Chlorooctadecane	53.9		mg/kg	50.0		108	28-171			
<b>LCS Dup (6072802-BSD1)</b>										
Prepared & Analyzed: 28-Jul-16										
GRO C6-C10	193	10.0	mg/kg	200		96.3	76.7-115	1.79	9.42	
DRO >C10-C28	208	10.0	mg/kg	200		104	78.3-122	2.98	13.2	
Total TPH C6-C28	400	10.0	mg/kg	400		100	79.8-117	2.41	10.7	
Surrogate: 1-Chlorooctane	49.0		mg/kg	50.0		98.0	35-147			
Surrogate: 1-Chlorooctadecane	52.8		mg/kg	50.0		106	28-171			

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

T-N-T ENVIRONMENTAL 70 OJITO ROAD LINDRITH NM, 87029	Project: QUARTERLY VADOZE Project Number: NONE GIVEN Project Manager: CRAIG SCHMITZ Fax To: (575) 774-9116	Reported: 11-Aug-16 12:15
--	---	------------------------------

**General Chemistry - Quality Control**
**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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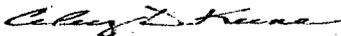
**Batch B608042 - General Prep - Wet Chem**
**Duplicate (B608042-DUP1)**
**Source: 1608025-02**
**Prepared & Analyzed: 03-Aug-16**

% Dry Solids	95.2		%		94.6			0.632	20	
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Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 11-Aug-16 12:15

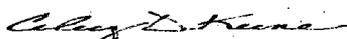
**Total Metals by ICP - Quality Control**  
**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B608048 - EPA 3050</b>										
<b>Blank (B608048-BLK1)</b>										
Prepared & Analyzed: 04-Aug-16										
Arsenic	ND	0.100	mg/kg dry							
Magnesium	ND	1.00	mg/kg dry							
Silver	ND	0.050	mg/kg dry							
Selenium	ND	0.200	mg/kg dry							
Potassium	ND	2.00	mg/kg dry							
Calcium	ND	0.100	mg/kg dry							
Cadmium	ND	0.050	mg/kg dry							
Lead	ND	0.100	mg/kg dry							
Barium	ND	0.010	mg/kg dry							
Chromium	ND	0.050	mg/kg dry							
Sodium	ND	2.00	mg/kg dry							
<b>LCS (B608048-BS1)</b>										
Prepared & Analyzed: 04-Aug-16										
Silver	0.094	0.050	mg/kg dry	0.100		94.5	85-115			
Sodium	6.44	2.00	mg/kg dry	6.48		99.4	85-115			
Selenium	7.94	0.200	mg/kg dry	8.00		99.2	85-115			
Potassium	7.82	2.00	mg/kg dry	8.00		97.8	85-115			
Magnesium	19.2	1.00	mg/kg dry	20.0		96.2	85-115			
Calcium	3.98	0.100	mg/kg dry	4.00		99.5	85-115			
Barium	1.97	0.010	mg/kg dry	2.00		98.7	85-115			
Lead	1.89	0.100	mg/kg dry	2.00		94.5	85-115			
Chromium	1.99	0.050	mg/kg dry	2.00		99.3	85-115			
Cadmium	1.88	0.050	mg/kg dry	2.00		94.1	85-115			
Arsenic	3.92	0.100	mg/kg dry	4.00		98.0	85-115			
<b>LCS Dup (B608048-BSD1)</b>										
Prepared & Analyzed: 04-Aug-16										
Cadmium	1.89	0.050	mg/kg dry	2.00		94.3	85-115	0.185	20	
Silver	0.095	0.050	mg/kg dry	0.100		95.0	85-115	0.575	20	
Selenium	7.95	0.200	mg/kg dry	8.00		99.4	85-115	0.240	20	
Lead	1.93	0.100	mg/kg dry	2.00		96.3	85-115	1.97	20	
Magnesium	19.5	1.00	mg/kg dry	20.0		97.3	85-115	1.16	20	
Arsenic	3.95	0.100	mg/kg dry	4.00		98.7	85-115	0.734	20	
Sodium	6.51	2.00	mg/kg dry	6.48		100	85-115	1.06	20	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 11-Aug-16 12:15

**Total Metals by ICP - Quality Control**  
**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B608048 - EPA 3050**
**LCS Dup (B608048-BSD1)**

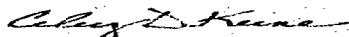
Prepared &amp; Analyzed: 04-Aug-16

Chromium	2.00	0.050	mg/kg dry	2.00		100	85-115	0.638	20	
Barium	1.98	0.010	mg/kg dry	2.00		99.1	85-115	0.362	20	
Potassium	7.91	2.00	mg/kg dry	8.00		98.9	85-115	1.10	20	
Calcium	4.04	0.100	mg/kg dry	4.00		101	85-115	1.61	20	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 11-Aug-16 12:15

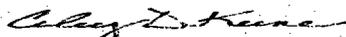
**Total Mercury by CVAA - Quality Control**  
**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B608046 - EPA 245.1/7470</b>										
<b>Blank (B608046-BLK1)</b>										
Prepared & Analyzed: 08-Aug-16										
Mercury	ND	0.0002	mg/kg wet							
<b>LCS (B608046-BS1)</b>										
Prepared & Analyzed: 08-Aug-16										
Mercury	0.0021	0.0002	mg/kg wet	0.00200		104	85-115			
<b>LCS Dup (B608046-BSD1)</b>										
Prepared & Analyzed: 08-Aug-16										
Mercury	0.0021	0.0002	mg/kg wet	0.00200		104	85-115	0.0962	20	

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Celey D. Keene, Lab Director/Quality Manager

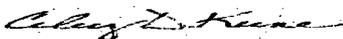
**Notes and Definitions**

- H2 Sample analysis performed past hold time specified by the method.
- 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**

(970) 247-4220  
Fax: (970) 247-4227

service@greenanalytical.com or dzufelt@greenanalytical.com  
75 Suttle St Durango, CO 81303

Company Name (if Applicable): <b>T-D-T ENVIRONMENTAL INC.</b>		Bill to (if different):		ANALYSIS REQUEST												
Contact Person:		P.O. #:		T.P.H 8015 MEXTENLED BTEX 8081B Chloride Sm 4500ci-B MAJOR CATIONS, ANIONS 8 RCRA METALS ADD B												
Address: <b>70 CR 405</b>		Company:														
City: <b>hINDRITH</b> State: <b>N.M.</b> Zip: <b>87029</b>		Attn:														
Phone #: <b>505-774-6504</b>		Address:														
Email: <b>SchmitzBnt@yahoo.com</b>		City:														
Project Name (optional): <b>QUARTERLY VADOSE</b>		State: Zip:														
Project Number (optional):		Phone #:														
Sampler Name (Print): <b>Tony Schmitz</b>		Email:														
For Lab Use <b>H601671</b> <b>H601672</b>	Sample Name or Location	Collected		Matrix (check one)				# of containers								
		Date	Time	GROUNDWATER	SURFACEWATER	WASTEWATER	PRODUCEDWATER	SOIL	DRINKING WATER	OTHER:	No preservation (general)	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	Other:	Other:
	<b>CELL #1</b>	<b>7/20/16</b>	<b>9:00AM</b>					<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						

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Relinquished By: <i>Kimberlee Schmitz</i>	Date: <b>7/25/16</b> Time: <b>12:15</b>	Received By: <i>Christin Clark</i>	ADDITIONAL REMARKS:	Report to State? (Circle) Yes No
Relinquished By: <i>Christin Clark</i>	Date: <b>7/25/16</b> Time: <b>1:56</b>	Received By: <i>Dorinda Zufelt</i>		
Relinquished By:	Date: <b>7/27/16</b> Time: <b>9:00</b>	Received By: <i>Jodi Hanson</i>		
Delivered By: (Circle One) Sampler - UPS - FedEx - Kangaroo - Other: <b>#75 4.10c</b>	Temperature at receipt: <b>2.3c</b>	CHECKED BY: <b>u</b>		

† GAL cannot always accept verbal changes. Please fax or email written change requests.  
\* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.

T-n-T Environmental Inc.  
 HCR 74 Box 113  
 Lindrith NM 87029

Project: Project LandFarm  
 Name: Vadoze  
 Project Manager: Craig Schmitz

Cell # 1  
 Vadoze

	Sample Date						
	9/26/1994	11/4/2015	7/20/2016				
TPH	Back Ground	Results	Results	Results	Results	Results	Results
8015M							
GRO	ND	ND	ND				
DRO	ND	ND	ND				
EXT DRO		ND	ND				
418.1							

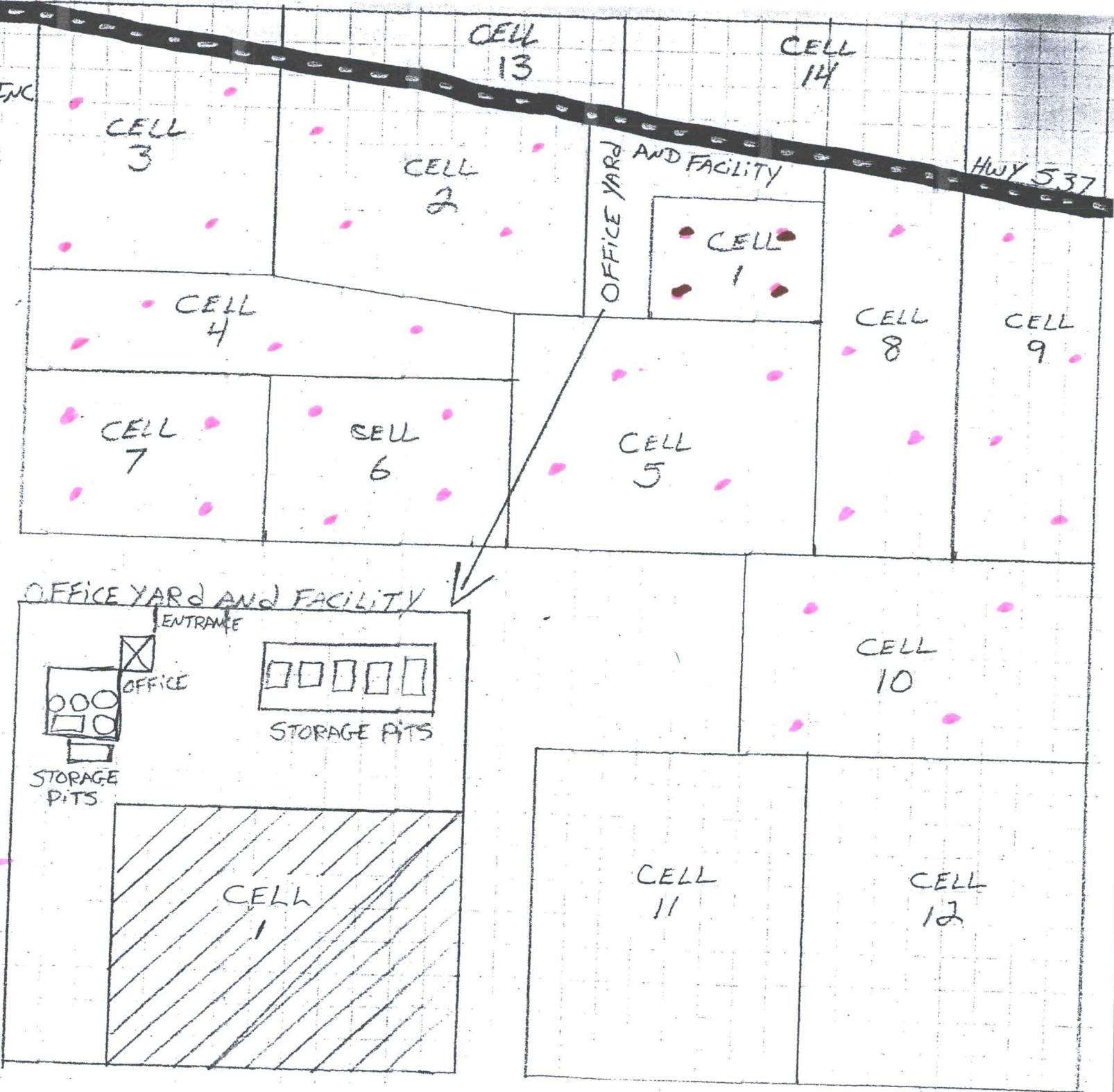
BTEX 8021B							
Benzene	ND	ND	ND				
Toluene	ND	ND	ND				
Ethylbenzene	ND	ND	ND				
Total Xylenes	ND	ND	ND				
Total BTEX	ND	ND	ND				

Chloride	4.57	48	ND				
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Metals, WQCC A & B Metals							
Arsenic	0.158	ND	ND				
Barium	136	199	121				
Cadmium	0.0811	ND	ND				
Chromium	20.5	22.5	16.6				
Copper							
Iron	15500						
Lead	4.92	10.8	ND				
Mercury	ND	ND	ND				
Selenium	1.04	ND	ND				
silver	ND	ND	ND				
Manganese							
Zinc							
calcium			3350				
magnesium			3490				
potassium			1810				
sodium		ND					

T-N-T ENVIRONMENTAL INC  
70 OJITO RD  
LINDRITH NM 87029

HAND FARM MAP  
PERMIT # NM-01-0008  
SEC. 5 & 8 T25N R3W



DATE 2016  
6/23/2016

TREATMENT

June 30, 2016

CRAIG SCHMITZ

T-N-T ENVIRONMENTAL

70 OJITO ROAD

LINDRITH, NM 87029

RE: TREATMENT ZONE

Enclosed are the results of analyses for samples received by the laboratory on 06/28/16 9:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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 [www.tceq.texas.gov/field/qa/lab/accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab/accred_certif.html).

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 (V1, 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:**

 T-N-T ENVIRONMENTAL  
 CRAIG SCHMITZ  
 70 OJITO ROAD  
 LINDRITH NM, 87029  
 Fax To: (575) 774-9116

 Received: 06/28/2016  
 Reported: 06/30/2016  
 Project Name: TREATMENT ZONE  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 06/23/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: CELL # 2 (H601429-02)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/29/2016	ND	1.67	83.3	2.00	0.293		
Toluene*	<0.050	0.050	06/29/2016	ND	1.57	78.7	2.00	0.315		
Ethylbenzene*	<0.050	0.050	06/29/2016	ND	1.49	74.6	2.00	0.127		
Total Xylenes*	<0.150	0.150	06/29/2016	ND	4.59	76.5	6.00	0.188		
Total BTEX	<0.300	0.300	06/29/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 96.4 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	06/29/2016	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/28/2016	ND	188	94.0	200	1.45		
DRO >C10-C28	112	10.0	06/28/2016	ND	187	93.4	200	1.70		
EXT DRO >C28-C35	46.9	10.0	06/28/2016	ND						

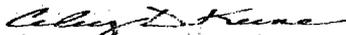
Surrogate: 1-Chlorooctane 75.4 % 35-147

Surrogate: 1-Chlorooctadecane 84.1 % 28-171

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 CRAIG SCHMITZ  
 70 OJITO ROAD  
 LINDRITH NM, 87029  
 Fax To: (575) 774-9116

 Received: 06/28/2016  
 Reported: 06/30/2016  
 Project Name: TREATMENT ZONE  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 06/23/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: CELL # 4 (H601429-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2016	ND	1.67	83.3	2.00	0.293	
Toluene*	<0.050	0.050	06/29/2016	ND	1.57	78.7	2.00	0.315	
Ethylbenzene*	<0.050	0.050	06/29/2016	ND	1.49	74.6	2.00	0.127	
Total Xylenes*	<0.150	0.150	06/29/2016	ND	4.59	76.5	6.00	0.188	
Total BTEX	<0.300	0.300	06/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 98.4 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	06/29/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/28/2016	ND	188	94.0	200	1.45	
DRO >C10-C28	141	10.0	06/28/2016	ND	187	93.4	200	1.70	
EXT DRO >C28-C35	82.3	10.0	06/28/2016	ND					

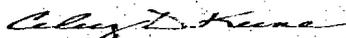
Surrogate: 1-Chlorooctane 83.3 % 35-147

Surrogate: 1-Chlorooctadecane 93.6 % 28-171

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\*= Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 CRAIG SCHMITZ  
 70 OJITO ROAD  
 LINDRITH, NM, 87029  
 Fax To: (575) 774-9116

 Received: 06/28/2016  
 Reported: 06/30/2016  
 Project Name: TREATMENT ZONE  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 06/23/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: CELL # 5 (H601429-05)**

BTEX 80218		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2016	ND	1.67	83.3	2.00	0.293	
Toluene*	<0.050	0.050	06/29/2016	ND	1.57	78.7	2.00	0.315	
Ethylbenzene*	<0.050	0.050	06/29/2016	ND	1.49	74.6	2.00	0.127	
Total Xylenes*	<0.150	0.150	06/29/2016	ND	4.59	76.5	6.00	0.188	
Total BTEX	<0.300	0.300	06/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PII) 97.9 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	06/29/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/28/2016	ND	188	94.0	200	1.45	
DRO >C10-C28	2890	10.0	06/28/2016	ND	187	93.4	200	1.70	
EXT DRO >C28-C35	1160	10.0	06/28/2016	ND					

Surrogate: 1-Chlorooctane 66.2 % 35-147

Surrogate: 1-Chlorooctadecane 143 % 28-171

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 CRAIG SCHMITZ  
 70 OJITO ROAD  
 LINDRITH NM, 87029  
 Fax To: (575) 774-9116

 Received: 06/28/2016  
 Reported: 06/30/2016  
 Project Name: TREATMENT ZONE  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 06/23/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: CELL # 6 (H601429-06)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2016	ND	1.67	83.3	2.00	0.293	
Toluene*	<0.050	0.050	06/29/2016	ND	1.57	78.7	2.00	0.315	
Ethylbenzene*	<0.050	0.050	06/29/2016	ND	1.49	74.6	2.00	0.127	
Total Xylenes*	<0.150	0.150	06/29/2016	ND	4.59	76.5	6.00	0.188	
Total BTEX	<0.300	0.300	06/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 97.5 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/29/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/28/2016	ND	188	94.0	200	1.45	
DRO >C10-C28	921	10.0	06/28/2016	ND	187	93.4	200	1.70	
EXT DRO >C28-C35	453	10.0	06/28/2016	ND					

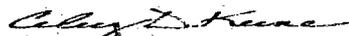
Surrogate: 1-Chlorooctane 82.9 % 35-147

Surrogate: 1-Chlorooctadecane 107 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 CRAIG SCHMITZ  
 70 OJITO ROAD  
 LINDRITH, NM, 87029  
 Fax To: (575) 774-9116

Received:	06/28/2016	Sampling Date:	06/23/2016
Reported:	06/30/2016	Sampling Type:	Soil
Project Name:	TREATMENT ZONE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CELL # 7 (H601429-07)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/29/2016	ND	1.67	83.3	2.00	0.293		
Toluene*	<0.050	0.050	06/29/2016	ND	1.57	78.7	2.00	0.315		
Ethylbenzene*	<0.050	0.050	06/29/2016	ND	1.49	74.6	2.00	0.127		
Total Xylenes*	<0.150	0.150	06/29/2016	ND	4.59	76.5	6.00	0.188		
Total BTEX	<0.300	0.300	06/29/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 97.5 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	06/29/2016	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/28/2016	ND	188	94.0	200	1.45		
DRO >C10-C28	856	10.0	06/28/2016	ND	187	93.4	200	1.70		
EXT DRO >C28-C35	394	10.0	06/28/2016	ND						

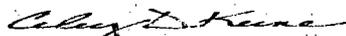
Surrogate: 1-Chlorooctane 69.5 % 35-147

Surrogate: 1-Chlorooctadecane 94.0 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 CRAIG SCHMITZ  
 70 OJITO ROAD  
 LINDRITH NM, 87029  
 Fax To: (575) 774-9116

 Received: 06/28/2016  
 Reported: 06/30/2016  
 Project Name: TREATMENT ZONE  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 06/23/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: CELL # 8 (H601429-08)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2016	ND	1.67	83.3	2.00	0.293	
Toluene*	<0.050	0.050	06/29/2016	ND	1.57	78.7	2.00	0.315	
Ethylbenzene*	<0.050	0.050	06/29/2016	ND	1.49	74.6	2.00	0.127	
Total Xylenes*	<0.150	0.150	06/29/2016	ND	4.59	76.5	6.00	0.188	
Total BTEX	<0.300	0.300	06/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 96.4 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	06/29/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/28/2016	ND	188	94.0	200	1.45	
DRO >C10-C28	106	10.0	06/28/2016	ND	187	93.4	200	1.70	
EXT DRO >C28-C35	47.1	10.0	06/28/2016	ND					

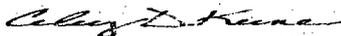
Surrogate: 1-Chlorooctane 81.6 % 35-147

Surrogate: 1-Chlorooctadecane 93.8 % 28-171

Cardinal Laboratories

\*= Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 CRAIG SCHMITZ  
 70 OJITO ROAD  
 LINDRITH NM, 87029  
 Fax To: (575) 774-9116

 Received: 06/28/2016  
 Reported: 06/30/2016  
 Project Name: TREATMENT ZONE  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 06/23/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: CELL # 9 (H601429-09)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/29/2016	ND	1.67	83.3	2.00	0.293		
Toluene*	<0.050	0.050	06/29/2016	ND	1.57	78.7	2.00	0.315		
Ethylbenzene*	<0.050	0.050	06/29/2016	ND	1.49	74.6	2.00	0.127		
Total Xylenes*	<0.150	0.150	06/29/2016	ND	4.59	76.5	6.00	0.188		
Total BTEX	<0.300	0.300	06/29/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 95.8 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	06/29/2016	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/28/2016	ND	188	94.0	200	1.45		
DRO >C10-C28	45.4	10.0	06/28/2016	ND	187	93.4	200	1.70		
EXT DRO >C28-C35	31.1	10.0	06/28/2016	ND						

Surrogate: 1-Chlorooctane 67.9 % 35-147

Surrogate: 1-Chlorooctadecane 78.5 % 28-171

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 CRAIG SCHMITZ  
 70 OJITO ROAD  
 LINDRITH, NM, 87029  
 Fax To: (575) 774-9116

 Received: 06/28/2016  
 Reported: 06/30/2016  
 Project Name: TREATMENT ZONE  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 06/23/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: CELL # 10 (H601429-10)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2016	ND	1.67	83.3	2.00	0.293	
Toluene*	<0.050	0.050	06/29/2016	ND	1.57	78.7	2.00	0.315	
Ethylbenzene*	<0.050	0.050	06/29/2016	ND	1.49	74.6	2.00	0.127	
Total Xylenes*	<0.150	0.150	06/29/2016	ND	4.59	76.5	6.00	0.188	
Total BTEX	<0.300	0.300	06/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 96.8 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/29/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/28/2016	ND	188	94.0	200	1.45	
DRO >C10-C28	203	10.0	06/28/2016	ND	187	93.4	200	1.70	
EXT DRO >C28-C35	91.2	10.0	06/28/2016	ND					

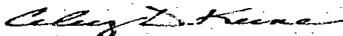
Surrogate: 1-Chlorooctane 67.4 % 35-147

Surrogate: 1-Chlorooctadecane 81.3 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

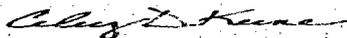
**Notes and Definitions**

- 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**

10F2

(970) 247-4220  
Fax: (970) 247-4227

service@greenanalytical.com or dzufelt@greenanalytical.com  
75 Suttle St Durango, CO 81303

Page 16 of 17

Company Name (If Applicable): <b>T-N-T ENVIRONMENTAL INC.</b>	Bill to (if different):	<b>ANALYSIS REQUEST</b>	
Contact Person:	P.O. #:		
Address: <b>70 CR 405</b>	Company:		
City: <b>LINDRITH</b> State: <b>N.M.</b> Zip: <b>87029</b>	Attn:		
Phone #: <b>505-774-6504</b>	Address:		
Email: <b>Schmitzente@yahoo.com</b>	City:		
Project Name (optional): <b>TREATMENT ZONE MONITORING</b>	State: Zip:		
Project Number (optional):	Phone #:		
Sampler Name (Print): <b>TONY SCHMITZ</b>	Email:		

For Lab Use	Sample Name or Location	Collected		Matrix (check one)							# of containers					
		Date	Time	GROUNDWATER	SURFACEWATER	WASTEWATER	PRODUCEDWATER	SOIL	DRINKING WATER	OTHER	No preservation (general)	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	Other:	Other:
H6014289																
-1	CELL #1	6/23/16	1:00 PM					<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>					
-2	#2		1:15 PM													
-3	#3		1:30 PM													
-4	#4		1:45 PM													
-5	#5		2:00 PM													
-6	#6		2:15 PM													
-7	#7		2:30 PM													
-8	#8		2:45 PM													
-9	#9		3:00 PM													
-10	#10		3:15 PM													

T-PH 8015 M EXTENDED  
 BTEX 8021 B  
 Chloride 8m4500ci-B

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Relinquished By:	Date: 6/24/16 Time: 1:00	Received By:	ADDITIONAL REMARKS:  Report to State? (Circle) Yes    No
Relinquished By:	Date: 6/27/16 Time: 1:00	Received By: Fed Ex	
Relinquished By:	Date: 6/28/16 Time: 9:25	Received By:	
Delivered By: (Circle One) Sampler - UPS - <b>FedEx</b> - Kangaroo - Other:	Temperature at receipt: 19°C KAT5 Cooler	CHECKED BY:	

† GAL cannot always accept verbal changes. Please fax or email written change requests.  
 \* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.















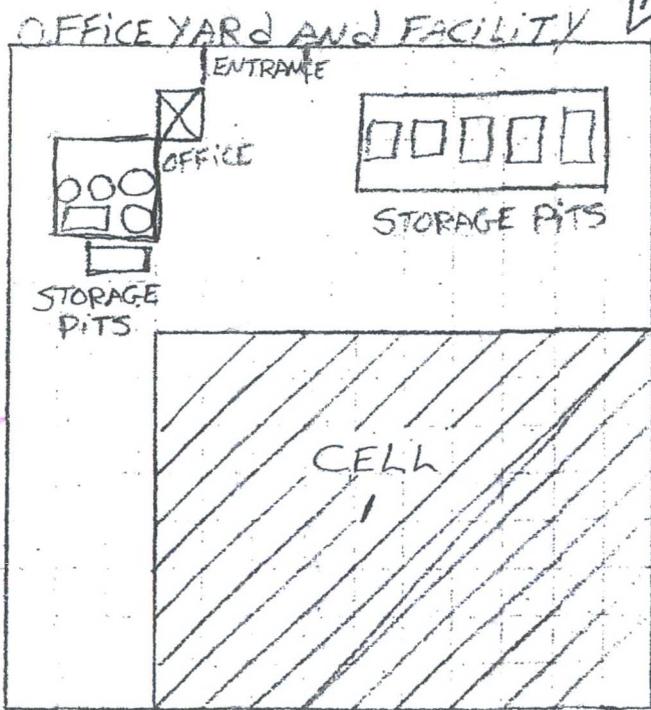
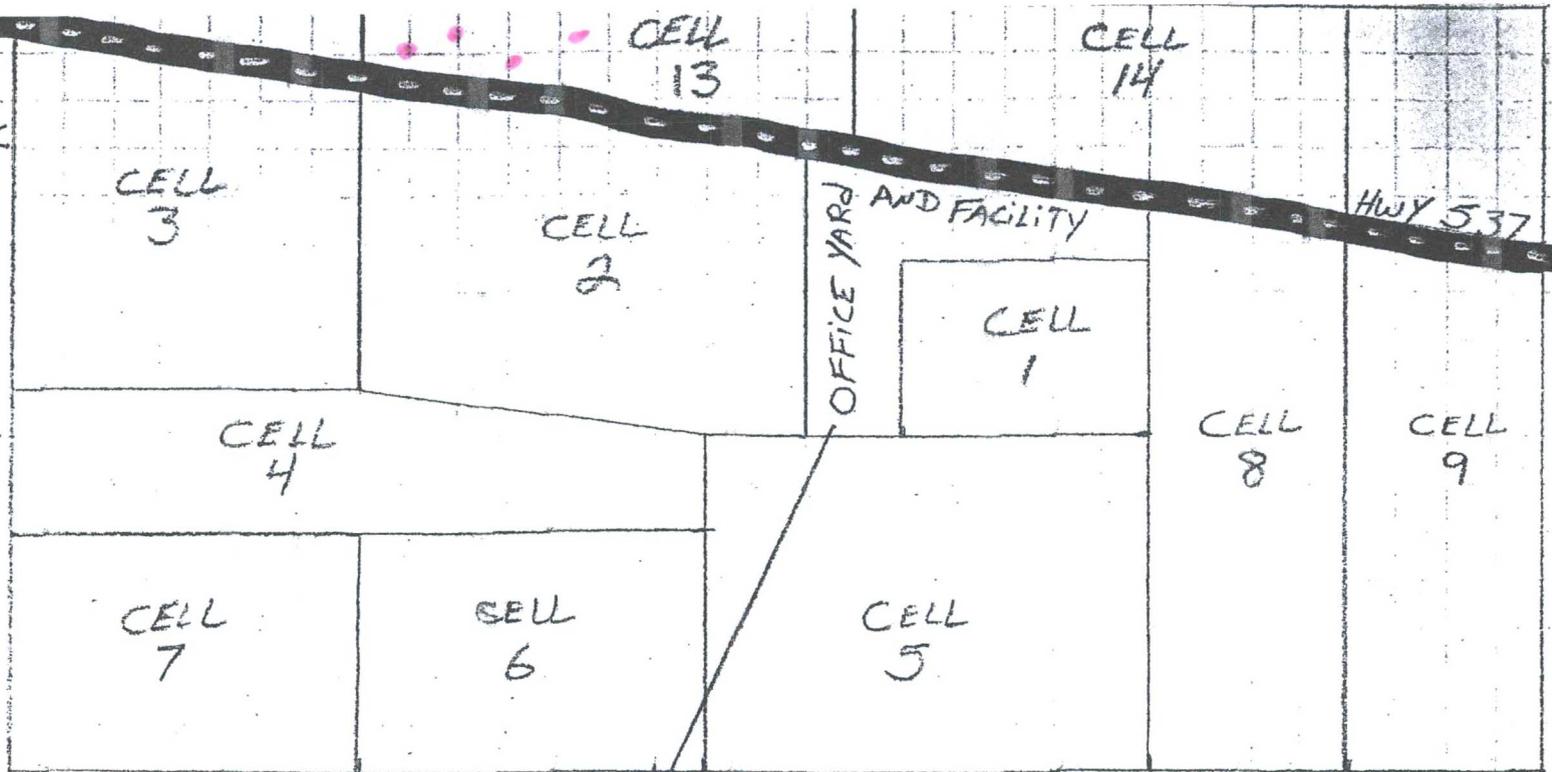






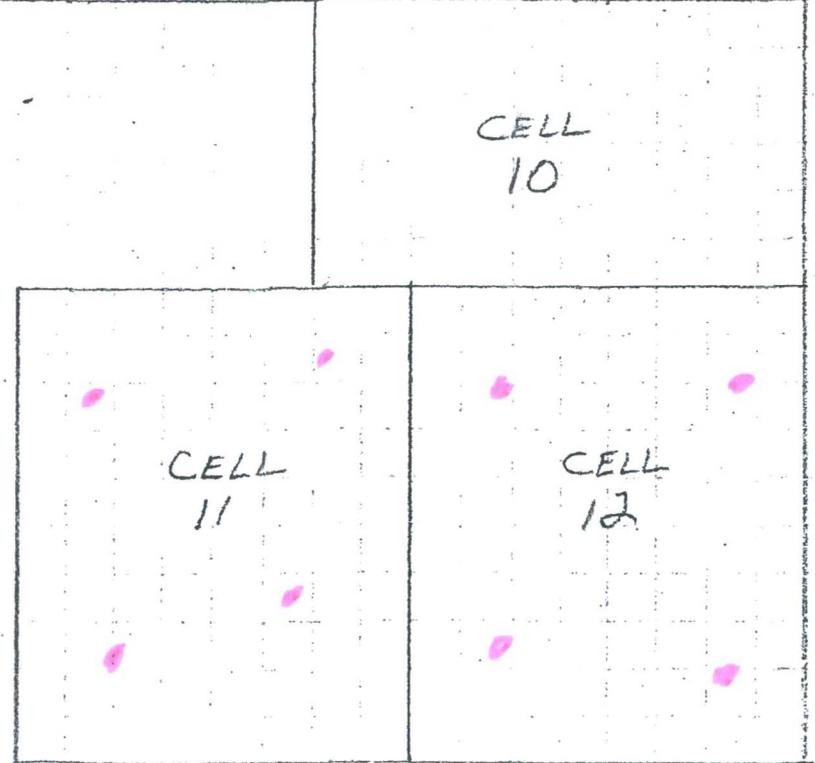
T-N-T ENVIRONMENTAL INC  
70 OJITO RD  
LINDRITH N.M. 87029

HAND FARM MAP  
PERMIT # NM-01-0008  
SEC. 5 & 8 T25N R3W



DATE 2016  
7/12/2016

TREATMENT



July 20, 2016

CRAIG SCHMITZ  
T-N-T ENVIRONMENTAL  
70 OJITO ROAD  
LINDRITH, NM 87029

RE: TREATMENT ZONE

Enclosed are the results of analyses for samples received by the laboratory on 07/14/16 9:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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 [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

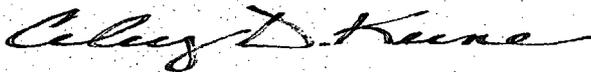
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, 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:**

 T-N-T ENVIRONMENTAL  
 CRAIG SCHMITZ  
 70 OJITO ROAD  
 LINDRITH, NM 87029  
 Fax To: (575) 774-9116

Received:	07/14/2016	Sampling Date:	07/12/2016
Reported:	07/20/2016	Sampling Type:	Soil
Project Name:	TREATMENT ZONE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CELL #11 (H601582-01)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2016	ND	2.05	102	2.00	0.758		
Toluene*	<0.050	0.050	07/14/2016	ND	2.20	110	2.00	0.562		
Ethylbenzene*	<0.050	0.050	07/14/2016	ND	2.15	107	2.00	0.497		
Total Xylenes*	<0.150	0.150	07/14/2016	ND	6.48	108	6.00	0.501		
Total BTEX	<0.300	0.300	07/14/2016	ND						

Surrogate: 4-Bromofluorobenzene (PII) 103 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/15/2016	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/14/2016	ND	178	88.9	200	3.28		
DRO >C10-C28	<10.0	10.0	07/14/2016	ND	188	93.9	200	3.89		
EXT DRO >C28-C35	<10.0	10.0	07/14/2016	ND						

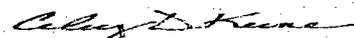
Surrogate: 1-Chlorooctane 55.7 % 35-147

Surrogate: 1-Chlorooctadecane 55.8 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 CRAIG SCHMITZ  
 70 OJITO ROAD  
 LINDRITH NM, 87029  
 Fax To: (575) 774-9116

 Received: 07/14/2016  
 Reported: 07/20/2016  
 Project Name: TREATMENT ZONE  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 07/12/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: CELL #12 (H601582-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2016	ND	2.05	102	2.00	0.758	
Toluene*	<0.050	0.050	07/14/2016	ND	2.20	110	2.00	0.562	
Ethylbenzene*	<0.050	0.050	07/14/2016	ND	2.15	107	2.00	0.497	
Total Xylenes*	<0.150	0.150	07/14/2016	ND	6.48	108	6.00	0.501	
Total BTEX	<0.300	0.300	07/14/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/15/2016	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2016	ND	178	88.9	200	3.28	
DRO >C10-C28	53.6	10.0	07/14/2016	ND	188	93.9	200	3.89	
EXT DRO >C28-C35	19.7	10.0	07/14/2016	ND					

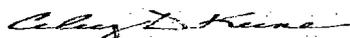
Surrogate: 1-Chlorooctane 77.6 % 35-147

Surrogate: 1-Chlorooctadecane 88.6 % 28-171

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 CRAIG SCHMITZ  
 70 OJITO ROAD  
 LINDRITH NM, 87029  
 Fax To: (575) 774-9116

Received:	07/14/2016	Sampling Date:	07/12/2016
Reported:	07/20/2016	Sampling Type:	Soil
Project Name:	TREATMENT ZONE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CELL #13 (H601582-03)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/15/2016	ND	1.86	93.2	2.00	1.20		
Toluene*	<0.050	0.050	07/15/2016	ND	2.08	104	2.00	1.83		
Ethylbenzene*	<0.050	0.050	07/15/2016	ND	2.06	103	2.00	2.00		
Total Xylenes*	<0.150	0.150	07/15/2016	ND	6.25	104	6.00	1.71		
Total BTEX	<0.300	0.300	07/15/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/15/2016	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/14/2016	ND	178	88.9	200	3.28		
DRO >C10-C28	<10.0	10.0	07/14/2016	ND	188	93.9	200	3.89		
EXT DRO >C28-C35	<10.0	10.0	07/14/2016	ND						

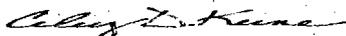
Surrogate: 1-Chlorooctane 59.8 % 35-147

Surrogate: 1-Chlorooctadecane 55.0 % 28-171

**Cardinal Laboratories**

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

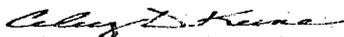
**Notes and Definitions**

- 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

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

(970) 247-4220  
 Fax: (970) 247-4227

service@greenanalytical.com or dzufelt@greenanalytical.com  
 75 Suttle St Durango, CO 81303

Company Name (If Applicable): <u>TNT ENVIRONMENTAL INC.</u>		Bill to (if different):		ANALYSIS REQUEST													
Contact Person:		P.O. #:		<u>TUPH 8015M EXTENDED</u> <u>BTEX 8021B</u> <u>CHLORIDE SM4500C1B</u>													
Address: <u>70 CR405</u>		Company:															
City: <u>LINDRITH</u> State: <u>N.M.</u> Zip: <u>87029</u>		Attn:															
Phone #: <u>575-774-6504</u>		Address:															
Email: <u>Schmitzent@yahoo.com</u>		City:															
Project Name (optional): <u>TREATMENT ZONE MONITORING</u>		State: Zip:															
Project Number (optional):		Phone #:															
Sampler Name (Print): <u>Tony Schmitz</u>		Email:															
For Lab Use	Sample Name or Location	Collected		Matrix (check one)							# of containers						
		Date	Time	GROUNDWATER	SURFACEWATER	WASTEWATER	PRODUCEDWATER	SOIL	DRINKING WATER	OTHER	No preservative (general)	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	Other:	Other:	
<u>H601582</u>																	
<u>1</u>	<u>CELL #11</u>	<u>7/12/16</u>	<u>9:00AM</u>					<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>						
<u>2</u>	<u>#12</u>		<u>9:15AM</u>					<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>						
<u>3</u>	<u>#13</u>		<u>9:30AM</u>					<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>						

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Relinquished By: <u>[Signature]</u>	Date: <u>7/13/16</u> Time: <u>3:00</u>	Received By: <u>Christin Clark</u>	ADDITIONAL REMARKS:	Report to State? (Circle) Yes No
Relinquished By: <u>Christin Clark</u>	Date: <u>7/13/16</u> Time: <u>1:00</u>	Received By: <u>Fred E</u>		
Relinquished By:	Date: <u>7/14/16</u> Time: <u>9:13</u>	Received By: <u>Jodi Henson</u>		
Delivered By: (Circle One) Sampler - UPS - FedEx - Kangaroo - Other: <u>#75 0.9c</u>	Temperature at receipt: <u>5°C on ice</u>	CHECKED BY: <u>a</u>		

† GAL cannot always accept verbal changes. Please fax or email written change requests.  
 \* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.

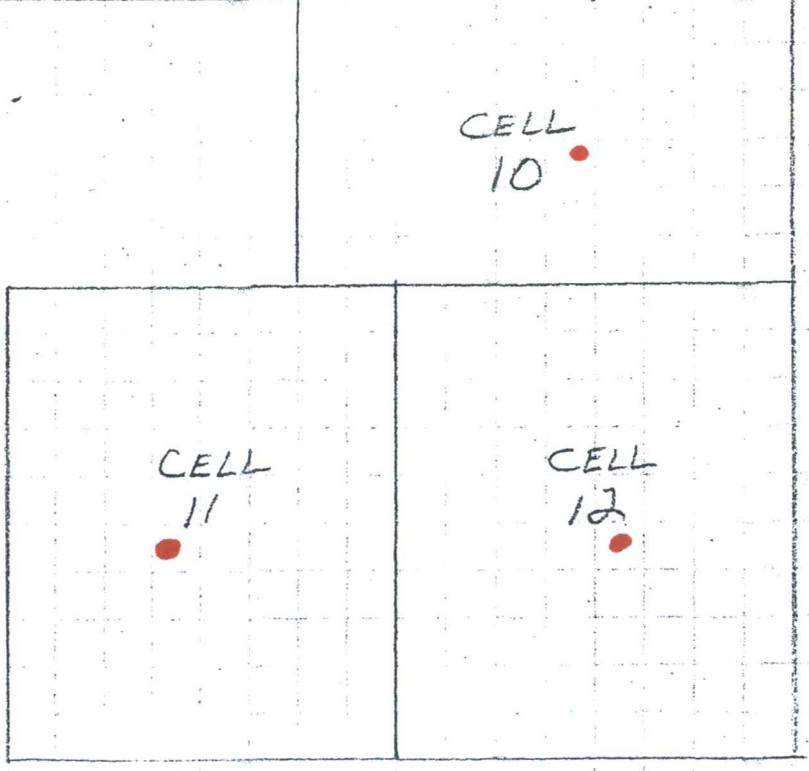
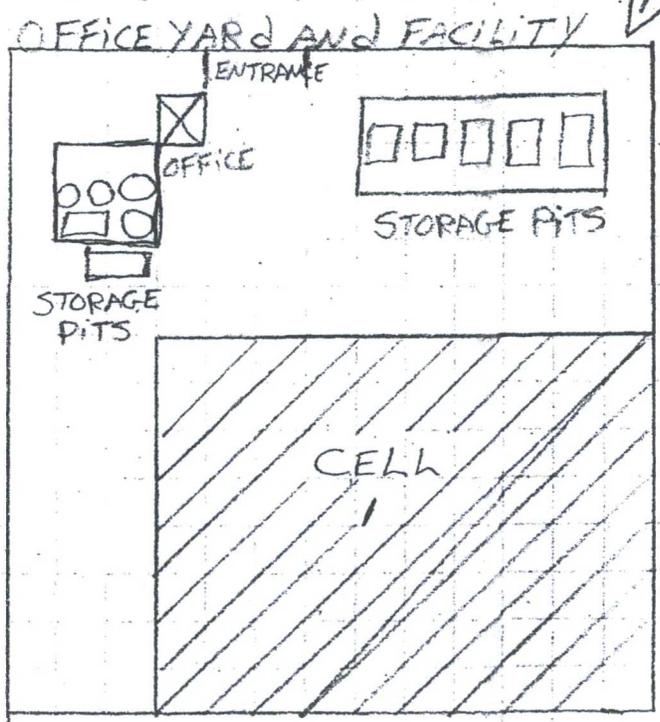
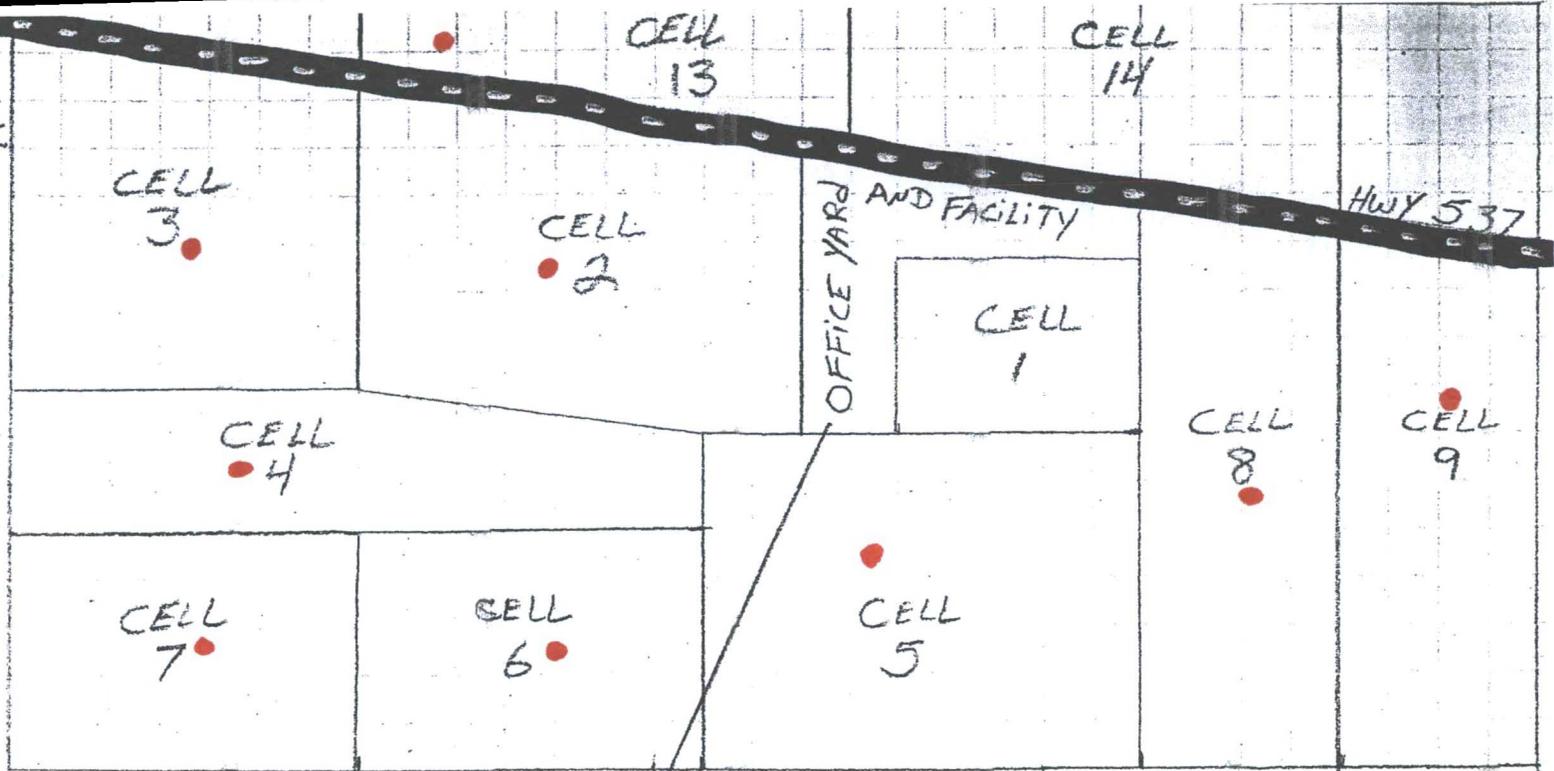






T-N-T ENVIRONMENTAL INC  
70 OJ. TO RD  
LINDRITH N.M. 87029

HAND FARM MAP  
PERMIT NM-01-0008  
SEC. 5 & 8 T25N R3W



DATE 2010  
6/24/16

VADOSE

July 21, 2016

CRAIG SCHMITZ

T-N-T ENVIRONMENTAL

70 OJITO ROAD

LINDRITH, NM 87029

RE: QUARTERLY VADOZE

Enclosed are the results of analyses for samples received by the laboratory on 06/28/16 9:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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 [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

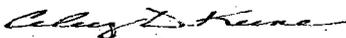
 Reported:  
 21-Jul-16 16:35

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CELL # 2	H601430-02	Soil	22-Jun-16 08:30	28-Jun-16 09:25
CELL # 3	H601430-03	Soil	22-Jun-16 09:00	28-Jun-16 09:25
CELL # 4	H601430-04	Soil	22-Jun-16 09:30	28-Jun-16 09:25
CELL # 5	H601430-05	Soil	22-Jun-16 10:00	28-Jun-16 09:25
CELL # 6	H601430-06	Soil	22-Jun-16 10:30	28-Jun-16 09:25
CELL # 7	H601430-07	Soil	22-Jun-16 11:00	28-Jun-16 09:25
CELL # 8	H601430-08	Soil	22-Jun-16 11:30	28-Jun-16 09:25
CELL # 9	H601430-09	Soil	22-Jun-16 12:00	28-Jun-16 09:25
CELL # 10	H601430-10	Soil	22-Jun-16 13:30	28-Jun-16 09:25
CELL # 11	H601430-11	Soil	22-Jun-16 14:00	28-Jun-16 09:25
CELL # 12	H601430-12	Soil	22-Jun-16 14:30	28-Jun-16 09:25
CELL # 13	H601430-13	Soil	22-Jun-16 15:00	28-Jun-16 09:25

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 21-Jul-16 16:35

**CELL # 2**  
**H601430-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

Alkalinity, Bicarbonate	488		20.0	mg/kg	1	6071107	AP	14-Jul-16	310.1	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	6071107	AP	14-Jul-16	310.1	
Chloride	<16.0		16.0	mg/kg	4	6062904	AP	29-Jun-16	4500-Cl-B	
Conductivity	397		1.00	uS/cm	1	6070503	AP	05-Jul-16	120.1	
pH*	7.30		0.100	pH Units	1	6062808	AP	29-Jun-16	9045	
Sulfate	<40.0		40.0	mg/kg	4	6071106	AP	11-Jul-16	375.4	
Alkalinity, Total*	400		16.0	mg/kg	1	6071107	AP	14-Jul-16	310.1	

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.1 %	73.6-140		6062901	MS	29-Jun-16	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
Surrogate: 1-Chlorooctane			80.2 %	35-147		6062812	MS	29-Jun-16	8015B	
Surrogate: 1-Chlorooctadecane			87.0 %	28-171		6062812	MS	29-Jun-16	8015B	

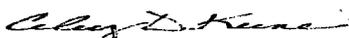
**Green Analytical Laboratories**
**General Chemistry**

% Dry Solids	98.3			%	1	B607087	LLG	13-Jul-16	ASA#9 & SSSA#5	H1
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 21-Jul-16 16:35

**CELL # 2**  
**H601430-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories**
**Total Metals by ICP**

Arsenic	<10.0		10.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
<b>Barium</b>	<b>88.4</b>		1.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Cadmium	<5.00		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
<b>Calcium</b>	<b>3340</b>		100	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
<b>Chromium</b>	<b>14.5</b>		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Lead	<10.0		10.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
<b>Magnesium</b>	<b>3200</b>		100	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
<b>Potassium</b>	<b>1940</b>		200	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Selenium	<20.0		20.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Silver	<5.00		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Sodium	<200		200	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	

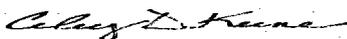
**Total Mercury by CVAA**

Mercury	<0.102		0.102	mg/kg dry	500	B607010	LLG	08-Jul-16	EPA7471	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 21-Jul-16 16:35

**CELL # 3**  
**H601430-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

Alkalinity, Bicarbonate	351		20.0	mg/kg	1	6071107	AP	14-Jul-16	310.1	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	6071107	AP	14-Jul-16	310.1	
Chloride	<16.0		16.0	mg/kg	4	6062904	AP	29-Jun-16	4500-Cl-B	
Conductivity	318		1.00	uS/cm	1	6070503	AP	05-Jul-16	120.1	
pH*	7.28		0.100	pH Units	1	6062808	AP	29-Jun-16	9045	
Sulfate	<40.0		40.0	mg/kg	4	6071106	AP	11-Jul-16	375.4	
Alkalinity, Total*	288		16.0	mg/kg	1	6071107	AP	14-Jul-16	310.1	

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			96.1 %	73.6-140		6062901	MS	29-Jun-16	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
Surrogate: 1-Chlorooctane			81.8 %	35-147		6062812	MS	29-Jun-16	8015B	
Surrogate: 1-Chlorooctadecane			82.4 %	28-171		6062812	MS	29-Jun-16	8015B	

**Green Analytical Laboratories**
**General Chemistry**

% Dry Solids	98.1		%	1	B607087	LLG	13-Jul-16	ASA#9 & SSSA#5	H1	
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**Cardinal Laboratories**

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

T-N-T ENVIRONMENTAL 70 QJITO ROAD LINDRITH NM, 87029	Project: QUARTERLY VADOZE Project Number: NONE GIVEN Project Manager: CRAIG SCHMITZ Fax To: (575) 774-9116	Reported: 21-Jul-16 16:35
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**CELL # 3**  
**H601430-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories**

**Total Metals by ICP**

Arsenic	<10.0		10.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
<b>Barium</b>	<b>91.8</b>		1.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Cadmium	<5.00		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
<b>Calcium</b>	<b>3510</b>		100	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
<b>Chromium</b>	<b>14.3</b>		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Lead	<10.0		10.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
<b>Magnesium</b>	<b>3270</b>		100	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
<b>Potassium</b>	<b>1590</b>		200	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Selenium	<20.0		20.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Silver	<5.00		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Sodium	<200		200	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	

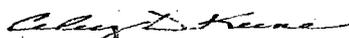
**Total Mercury by CVAA**

Mercury	<0.102		0.102	mg/kg dry	500	B607010	LLG	08-Jul-16	EPA7471	
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Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 21-Jul-16 16:35

**CELL # 4**  
**H601430-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

Alkalinity, Bicarbonate	370		20.0	mg/kg	1	6071107	AP	14-Jul-16	310.1	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	6071107	AP	14-Jul-16	310.1	
Chloride	<16.0		16.0	mg/kg	4	6062904	AP	29-Jun-16	4500-Cl-B	
Conductivity	376		1.00	uS/cm	1	6070503	AP	05-Jul-16	120.1	
pH*	7.31		0.100	pH Units	1	6062808	AP	29-Jun-16	9045	
Sulfate	<40.0		40.0	mg/kg	4	6071106	AP	11-Jul-16	375.4	
Alkalinity, Total*	304		16.0	mg/kg	1	6071107	AP	14-Jul-16	310.1	

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6062901	MS	29-Jun-16	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.6-140 6062901 MS 29-Jun-16 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	

Surrogate: 1-Chlorooctane 79.0 % 35-147 6062812 MS 29-Jun-16 8015B

Surrogate: 1-Chlorooctadecane 88.7 % 28-171 6062812 MS 29-Jun-16 8015B

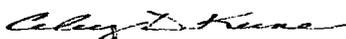
**Green Analytical Laboratories**
**General Chemistry**

% Dry Solids	98.1			%	1	B607087	LLG	13-Jul-16	ASA#9 & SSSA#5	H1
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**Cardinal Laboratories**

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 21-Jul-16 16:35

**CELL # 4**
**H601430-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories**
**Total Metals by ICP**

Arsenic	<10.0		10.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Barium	97.5		1.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Cadmium	<5.00		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Calcium	4310		100	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Chromium	17.3		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Lead	<10.0		10.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Magnesium	3910		100	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Potassium	1730		200	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Selenium	<20.0		20.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Silver	<5.00		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Sodium	<200		200	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	

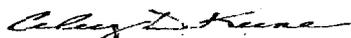
**Total Mercury by CVAA**

Mercury	<0.102		0.102	mg/kg dry	500	B607010	LLG	08-Jul-16	EPA7471	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 21-Jul-16 16:35

**CELL # 5**
**H601430-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

Alkalinity, Bicarbonate	370		20.0	mg/kg	1	6071107	AP	14-Jul-16	310.1	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	6071107	AP	14-Jul-16	310.1	
Chloride	<16.0		16.0	mg/kg	4	6062904	AP	29-Jun-16	4500-Cl-B	
Conductivity	329		1.00	uS/cm	1	6070503	AP	05-Jul-16	120.1	
pH*	7.36		0.100	pH Units	1	6062808	AP	29-Jun-16	9045	
Sulfate	<40.0		40.0	mg/kg	4	6071106	AP	11-Jul-16	375.4	
Alkalinity, Total*	304		16.0	mg/kg	1	6071107	AP	14-Jul-16	310.1	

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			96.9 %	73.6-140		6062901	MS	29-Jun-16	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
Surrogate: 1-Chlorooctane			82.0 %	35-147		6062812	MS	29-Jun-16	8015B	
Surrogate: 1-Chlorooctadecane			79.5 %	28-171		6062812	MS	29-Jun-16	8015B	

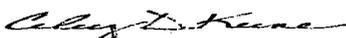
**Green Analytical Laboratories**
**General Chemistry**

% Dry Solids	97.7			%	1	B607087	LLG	13-Jul-16	ASA#9 & SSSA#5	H1
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**Cardinal Laboratories**

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 21-Jul-16 16:35

**CELL # 5**  
**H601430-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories**
**Total Metals by ICP**

Arsenic	<10.0		10.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
<b>Barium</b>	<b>89.7</b>		1.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Cadmium	<5.00		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Calcium	<b>9040</b>		100	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Chromium	<b>16.0</b>		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Lead	<10.0		10.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Magnesium	<b>3560</b>		100	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Potassium	<b>1620</b>		200	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Selenium	<20.0		20.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Silver	<5.00		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Sodium	<200		200	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	

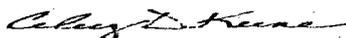
**Total Mercury by CVAA**

Mercury	<0.102		0.102	mg/kg dry	500	B607010	LLG	08-Jul-16	EPA7471	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 21-Jul-16 16:35

**CELL # 6**  
**H601430-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

Alkalinity, Bicarbonate	429		20.0	mg/kg	1	6071107	AP	14-Jul-16	310.1	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	6071107	AP	14-Jul-16	310.1	
Chloride	<16.0		16.0	mg/kg	4	6062904	AP	29-Jun-16	4500-Cl-B	
Conductivity	464		1.00	uS/cm	1	6070503	AP	05-Jul-16	120.1	
pH*	7.46		0.100	pH Units	1	6062808	AP	29-Jun-16	9045	
Sulfate	<40.0		40.0	mg/kg	4	6071106	AP	11-Jul-16	375.4	
Alkalinity, Total*	352		16.0	mg/kg	1	6071107	AP	14-Jul-16	310.1	

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			98.1 %	73.6-140		6062901	MS	29-Jun-16	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
Surrogate: 1-Chlorooctane			80.4 %	35-147		6062812	MS	29-Jun-16	8015B	
Surrogate: 1-Chlorooctadecane			75.4 %	28-171		6062812	MS	29-Jun-16	8015B	

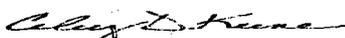
**Green Analytical Laboratories**
**General Chemistry**

% Dry Solids	97.9			%	1	B607087	LLG	13-Jul-16	ASA#9 & SSSA#5	H1
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**Cardinal Laboratories**

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 21-Jul-16 16:35

**CELL # 6**
**H601430-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories**
**Total Metals by ICP**

Arsenic	<10.0		10.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
<b>Barium</b>	<b>108</b>		1.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Cadmium	<5.00		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
<b>Calcium</b>	<b>4130</b>		100	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
<b>Chromium</b>	<b>18.2</b>		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Lead	<10.0		10.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
<b>Magnesium</b>	<b>4030</b>		100	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
<b>Potassium</b>	<b>2240</b>		200	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Selenium	<20.0		20.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Silver	<5.00		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Sodium	<200		200	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	

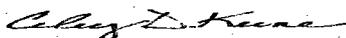
**Total Mercury by CVAA**

Mercury	<0.102		0.102	mg/kg dry	500	B607010	LLG	08-Jul-16	EPA7471	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

T-N-T ENVIRONMENTAL 70 OJITO ROAD LINDRITH NM, 87029	Project: QUARTERLY VADOZE Project Number: NONE GIVEN Project Manager: CRAIG SCHMITZ Fax To: (575) 774-9116	Reported: 21-Jul-16 16:35
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**CELL # 7**  
**H601430-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

Alkalinity, Bicarbonate	352		20.0	mg/kg	1	6071107	AP	14-Jul-16	310.1	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	6071107	AP	14-Jul-16	310.1	
Chloride	<16.0		16.0	mg/kg	4	6062904	AP	29-Jun-16	4500-Cl-B	
Conductivity	329		1.00	uS/cm	1	6070503	AP	05-Jul-16	120.1	
pH*	7.38		0.100	pH Units	1	6062808	AP	29-Jun-16	9045	
Sulfate	<40.0		40.0	mg/kg	4	6071106	AP	11-Jul-16	375.4	
Alkalinity, Total*	288		16.0	mg/kg	1	6071107	AP	14-Jul-16	310.1	

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			96.6 %			73.6-140	6062901	MS	29-Jun-16	8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
Surrogate: 1-Chlorooctane			86.1 %			35-147	6062812	MS	29-Jun-16	8015B
Surrogate: 1-Chlorooctadecane			82.2 %			28-171	6062812	MS	29-Jun-16	8015B

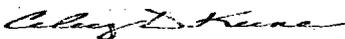
**Green Analytical Laboratories**
**General Chemistry**

% Dry Solids	97.5			%	1	B607087	LLG	13-Jul-16	ASA#9 & SSSA#5	H1
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**Cardinal Laboratories**

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

T-N-T ENVIRONMENTAL 70 OJITO ROAD LINDRITH NM, 87029	Project: QUARTERLY VADOZE Project Number: NONE GIVEN Project Manager: CRAIG SCHMITZ Fax To: (575) 774-9116	Reported: 21-Jul-16 16:35
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**CELL # 7**
**H601430-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories**
**Total Metals by ICP**

Arsenic	<10.0		10.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Barium	<b>111</b>		1.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Cadmium	<5.00		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Calcium	<b>4400</b>		100	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Chromium	<b>16.6</b>		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Lead	<10.0		10.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Magnesium	<b>3810</b>		100	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Potassium	<b>1980</b>		200	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Selenium	<20.0		20.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Silver	<5.00		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Sodium	<200		200	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	

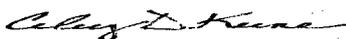
**Total Mercury by CVAA**

Mercury	<0.103		0.103	mg/kg dry	500	B607010	LLG	08-Jul-16	EPA7471	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 21-Jul-16 16:35

**CELL # 8**  
**H601430-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

Alkalinity, Bicarbonate	312		20.0	mg/kg	1	6071107	AP	14-Jul-16	310.1	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	6071107	AP	14-Jul-16	310.1	
Chloride	<16.0		16.0	mg/kg	4	6062904	AP	29-Jun-16	4500-Cl-B	
Conductivity	288		1.00	uS/cm	1	6070503	AP	05-Jul-16	120.1	
pH*	7.46		0.100	pH Units	1	6062808	AP	29-Jun-16	9045	
Sulfate	<40.0		40.0	mg/kg	4	6071106	AP	11-Jul-16	375.4	
Alkalinity, Total*	256		16.0	mg/kg	1	6071107	AP	14-Jul-16	310.1	

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			98.3 %	73.6-140		6062901	MS	29-Jun-16	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
Surrogate: 1-Chlorooctane			90.8 %	35-147		6062812	MS	29-Jun-16	8015B	
Surrogate: 1-Chlorooctadecane			87.2 %	28-171		6062812	MS	29-Jun-16	8015B	

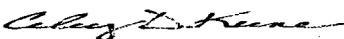
**Green Analytical Laboratories**
**General Chemistry**

% Dry Solids	96.9			%	1	B607087	LLG	13-Jul-16	ASA#9 & SSSA#5	H1
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**Cardinal Laboratories**

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 21-Jul-16 16:35

**CELL # 8**  
**H601430-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories**
**Total Metals by ICP**

Arsenic	<10.0		10.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Barium	92.9		1.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Cadmium	<5.00		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Calcium	3720		100	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Chromium	16.9		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Lead	<10.0		10.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Magnesium	3680		100	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Potassium	1660		200	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Selenium	<20.0		20.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Silver	<5.00		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Sodium	<200		200	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	

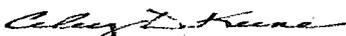
**Total Mercury by CVAA**

Mercury	<0.103		0.103	mg/kg dry	500	B607010	LLG	08-Jul-16	EPA7471	
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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 21-Jul-16 16:35

**CELL # 9**
**H601430-09 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

Alkalinity, Bicarbonate	156		20.0	mg/kg	1	6071107	AP	14-Jul-16	310.1	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	6071107	AP	14-Jul-16	310.1	
Chloride	<16.0		16.0	mg/kg	4	6062904	AP	29-Jun-16	4500-Cl-B	
Conductivity	140		1.00	uS/cm	1	6070503	AP	05-Jul-16	120.1	
pH*	7.17		0.100	pH Units	1	6062809	AP	29-Jun-16	9045	
Sulfate	<40.0		40.0	mg/kg	4	6071106	AP	11-Jul-16	375.4	
Alkalinity, Total*	128		16.0	mg/kg	1	6071107	AP	14-Jul-16	310.1	

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			98.0 %	73.6-140		6062901	MS	29-Jun-16	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
Surrogate: 1-Chlorooctane			78.7 %	35-147		6062812	MS	29-Jun-16	8015B	
Surrogate: 1-Chlorooctadecane			76.6 %	28-171		6062812	MS	29-Jun-16	8015B	

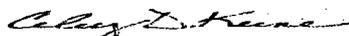
**Green Analytical Laboratories**
**General Chemistry**

% Dry Solids	94.8			%	1	B607087	LLG	13-Jul-16	ASA#9 & SSSA#5	H1
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**Cardinal Laboratories**

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 21-Jul-16 16:35

**CELL # 9**  
**H601430-09 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories**
**Total Metals by ICP**

Arsenic	<10.0		10.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
<b>Barium</b>	<b>154</b>		1.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Cadmium	<5.00		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
<b>Calcium</b>	<b>4520</b>		100	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
<b>Chromium</b>	<b>21.5</b>		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Lead	<10.0		10.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
<b>Magnesium</b>	<b>4910</b>		100	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
<b>Potassium</b>	<b>2350</b>		200	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Selenium	<20.0		20.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Silver	<5.00		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Sodium	<200		200	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	

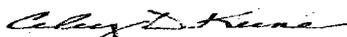
**Total Mercury by CVAA**

Mercury	<0.105		0.105	mg/kg dry	500	B607010	LLG	08-Jul-16	EPA7471	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 21-Jul-16 16:35

**CELL # 10**
**H601430-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

Alkalinity, Bicarbonate	156		20.0	mg/kg	1	6071107	AP	14-Jul-16	310.1	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	6071107	AP	14-Jul-16	310.1	
Chloride	<16.0		16.0	mg/kg	4	6062905	AP	29-Jun-16	4500-Cl-B	
Conductivity	104		1.00	uS/cm	1	6070504	AP	05-Jul-16	120.1	
pH*	7.28		0.100	pH Units	1	6062809	AP	29-Jun-16	9045	
Sulfate	<40.0		40.0	mg/kg	4	6071106	AP	11-Jul-16	375.4	
Alkalinity, Total*	128		16.0	mg/kg	1	6071107	AP	14-Jul-16	310.1	

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			98.1 %	73.6-140		6062901	MS	29-Jun-16	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
Surrogate: 1-Chlorooctane			76.6 %	35-147		6062812	MS	29-Jun-16	8015B	
Surrogate: 1-Chlorooctadecane			71.5 %	28-171		6062812	MS	29-Jun-16	8015B	

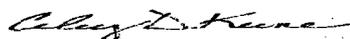
**Green Analytical Laboratories**
**General Chemistry**

% Dry Solids	94.5			%	1	B607087	LLG	13-Jul-16	ASA#9 & SSSA#5	H1
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**Cardinal Laboratories**

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 21-Jul-16 16:35

**CELL # 10**  
**H601430-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories**
**Total Metals by ICP**

Arsenic	<10.0		10.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Barium	140		1.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Cadmium	<5.00		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Calcium	3980		100	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Chromium	18.6		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Lead	<10.0		10.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Magnesium	4250		100	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Potassium	2040		200	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Selenium	<20.0		20.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Silver	<5.00		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Sodium	<200		200	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	

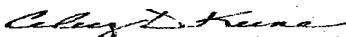
**Total Mercury by CVAA**

Mercury	<0.106		0.106	mg/kg dry	500	B607010	LLG	08-Jul-16	EPA7471	
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Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 21-Jul-16 16:35

**CELL # 11**  
**H601430-11 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

Alkalinity, Bicarbonate	273		20.0	mg/kg	1	6071107	AP	14-Jul-16	310.1	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	6071107	AP	14-Jul-16	310.1	
Chloride	<16.0		16.0	mg/kg	4	6062905	AP	29-Jun-16	4500-Cl-B	
Conductivity	286		1.00	uS/cm	1	6070504	AP	05-Jul-16	120.1	
pH*	7.28		0.100	pH Units	1	6062809	AP	29-Jun-16	9045	
Sulfate	87.0		40.0	mg/kg	4	6071106	AP	11-Jul-16	375.4	
Alkalinity, Total*	224		16.0	mg/kg	1	6071107	AP	14-Jul-16	310.1	

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.7 %	73.6-140		6062901	MS	29-Jun-16	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
Surrogate: 1-Chlorooctane			88.0 %	35-147		6062812	MS	29-Jun-16	8015B	
Surrogate: 1-Chlorooctadecane			82.5 %	28-171		6062812	MS	29-Jun-16	8015B	

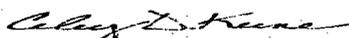
**Green Analytical Laboratories**
**General Chemistry**

% Dry Solids	84.1		%		1	B607087	LLG	13-Jul-16	ASA#9 & SSSA#5	H1
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 21-Jul-16 16:35

**CELL # 11**  
**H601430-11 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories**
**Total Metals by ICP**

Arsenic	<10.0		10.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Barium	157		1.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Cadmium	<5.00		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Calcium	4660		100	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Chromium	22.7		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Lead	<10.0		10.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Magnesium	5070		100	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Potassium	2770		200	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Selenium	<20.0		20.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Silver	<5.00		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Sodium	<200		200	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	

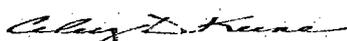
**Total Mercury by CVAA**

Mercury	<0.119		0.119	mg/kg dry	500	B607010	LLG	08-Jul-16	EPA7471	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

T-N-T ENVIRONMENTAL 70 OJITO ROAD LINDRITH NM, 87029	Project: QUARTERLY VADOZE Project Number: NONE GIVEN Project Manager: CRAIG SCHMITZ Fax To: (575) 774-9116	Reported: 21-Jul-16 16:35
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**CELL # 12**  
**H601430-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

Alkalinity, Bicarbonate	234		20.0	mg/kg	1	6071107	AP	14-Jul-16	310.1	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	6071107	AP	14-Jul-16	310.1	
Chloride	<16.0		16.0	mg/kg	4	6062905	AP	29-Jun-16	4500-Cl-B	
Conductivity	148		1.00	uS/cm	1	6070504	AP	05-Jul-16	120.1	
pH*	7.34		0.100	pH Unins	1	6062809	AP	29-Jun-16	9045	
Sulfate	<40.0		40.0	mg/kg	4	6071106	AP	11-Jul-16	375.4	
Alkalinity, Total*	192		16.0	mg/kg	1	6071107	AP	14-Jul-16	310.1	

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.4 %	73.6-140		6062901	MS	29-Jun-16	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
Surrogate: 1-Chlorooctane			78.6 %	35-147		6062812	MS	29-Jun-16	8015B	
Surrogate: 1-Chlorooctadecane			76.7 %	28-171		6062812	MS	29-Jun-16	8015B	

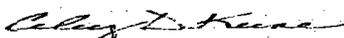
**Green Analytical Laboratories**
**General Chemistry**

% Dry Solids	93.5			%	1	B607087	LLG	13-Jul-16	ASA#9 & SSSA#5	H1
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**Cardinal Laboratories**

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 21-Jul-16 16:35

**CELL # 12**  
**H601430-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories**
**Total Metals by ICP**

Arsenic	<10.0		10.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Barium	<b>165</b>		1.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Cadmium	<5.00		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Calcium	<b>4940</b>		100	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Chromium	<b>23.0</b>		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Lead	<b>10.5</b>		10.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Magnesium	<b>5210</b>		100	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Potassium	<b>2410</b>		200	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Selenium	<20.0		20.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Silver	<5.00		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Sodium	<200		200	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	

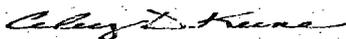
**Total Mercury by CVAA**

Mercury	<0.107		0.107	mg/kg dry	500	B607010	LLG	08-Jul-16	EPA7471	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 21-Jul-16 16:35

**CELL # 13**

H601430-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

Alkalinity, Bicarbonate	234		20.0	mg/kg	1	6071107	AP	14-Jul-16	310.1	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	6071107	AP	14-Jul-16	310.1	
Chloride	<16.0		16.0	mg/kg	4	6062905	AP	29-Jun-16	4500-Cl-B	
Conductivity	148		1.00	uS/cm	1	6070504	AP	05-Jul-16	120.1	
pH*	7.39		0.100	pH Units	1	6062809	AP	29-Jun-16	9045	
Sulfate	<40.0		40.0	mg/kg	4	6071106	AP	11-Jul-16	375.4	
Alkalinity, Total*	192		16.0	mg/kg	1	6071107	AP	14-Jul-16	310.1	

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6062901	MS	29-Jun-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			98.4 %	73.6-140		6062901	MS	29-Jun-16	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6062812	MS	29-Jun-16	8015B	
Surrogate: 1-Chlorooctane			84.5 %	35-147		6062812	MS	29-Jun-16	8015B	
Surrogate: 1-Chlorooctadecane			78.9 %	28-171		6062812	MS	29-Jun-16	8015B	

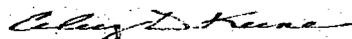
**Green Analytical Laboratories**
**General Chemistry**

% Dry Solids	95.3			%	1	B607087	LLG	13-Jul-16	ASA#9 & SSSA#5	H1
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 21-Jul-16 16:35

**CELL # 13**

H601430-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories**
**Total Metals by ICP**

Arsenic	<10.0		10.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Barium	154		1.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Cadmium	<5.00		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Calcium	4660		100	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Chromium	20.3		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Lead	<10.0		10.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Magnesium	4720		100	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Potassium	2220		200	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Selenium	<20.0		20.0	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Silver	<5.00		5.00	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	
Sodium	<200		200	mg/kg dry	100	B607069	LLG	12-Jul-16	EPA6010 B	

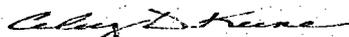
**Total Mercury by CVAA**

Mercury	<0.105		0.105	mg/kg dry	500	B607010	LLG	08-Jul-16	EPA7471	
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Caley D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 21-Jul-16 16:35

**Inorganic Compounds - Quality Control**  
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6062808 - General Prep - Wet Chem**
**LCS (6062808-BS1)**

Prepared: 28-Jun-16 Analyzed: 29-Jun-16

pH	7.02		pH Units	7.00		100	90-110			
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**Duplicate (6062808-DUP1)**

Source: H601428-01

Prepared: 28-Jun-16 Analyzed: 29-Jun-16

pH	8.56	0.100	pH Units		8.71			1.74	20	
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**Batch 6062809 - General Prep - Wet Chem**
**LCS (6062809-BS1)**

Prepared: 28-Jun-16 Analyzed: 29-Jun-16

pH	7.06		pH Units	7.00		101	90-110			
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**Duplicate (6062809-DUP1)**

Source: H601430-09

Prepared: 28-Jun-16 Analyzed: 29-Jun-16

pH	7.22	0.100	pH Units		7.17			0.695	20	
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**Batch 6062904 - 1:4 DI Water**
**Blank (6062904-BLK1)**

Prepared &amp; Analyzed: 29-Jun-16

Chloride	ND	16.0	mg/kg							
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**LCS (6062904-BS1)**

Prepared &amp; Analyzed: 29-Jun-16

Chloride	416	16.0	mg/kg	400		104	80-120			
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**LCS Dup (6062904-BSD1)**

Prepared &amp; Analyzed: 29-Jun-16

Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
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**Batch 6062905 - 1:4 DI Water**
**Blank (6062905-BLK1)**

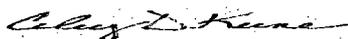
Prepared &amp; Analyzed: 29-Jun-16

Chloride	ND	16.0	mg/kg							
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 21-Jul-16 16:35

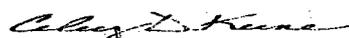
**Inorganic Compounds - Quality Control**  
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 6062905 - 1:4 DI Water</b>										
LCS (6062905-BS1) Prepared & Analyzed: 29-Jun-16										
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (6062905-BSD1) Prepared & Analyzed: 29-Jun-16										
Chloride	416	16.0	mg/kg	400		104	80-120	3.77	20	
<b>Batch 6070503 - General Prep - Wet Chem</b>										
LCS (6070503-BS1) Prepared & Analyzed: 05-Jul-16										
Conductivity	491		uS/cm	500		98.2	80-120			
Duplicate (6070503-DUP1) Source: H601430-01 Prepared & Analyzed: 05-Jul-16										
Conductivity	317	1.00	uS/cm		312			1.59	20	
<b>Batch 6070504 - General Prep - Wet Chem</b>										
LCS (6070504-BS1) Prepared & Analyzed: 05-Jul-16										
Conductivity	491		uS/cm	500		98.2	80-120			
Duplicate (6070504-DUP1) Source: H601430-10 Prepared & Analyzed: 05-Jul-16										
Conductivity	104	1.00	uS/cm		104			0.0960	20	
<b>Batch 6071106 - General Prep - Wet Chem</b>										
Blank (6071106-BLK1) Prepared & Analyzed: 11-Jul-16										
Sulfate	ND	10.0	mg/kg							

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 21-Jul-16 16:35

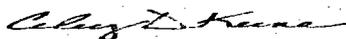
**Inorganic Compounds - Quality Control**  
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Results	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 6071106 - General Prep - Wet Chem</b>										
<b>LCS (6071106-BS1)</b> Prepared & Analyzed: 11-Jul-16										
Sulfate	23.5	10.0	mg/kg	20.0		118	80-120			
<b>LCS Dup (6071106-BSD1)</b> Prepared & Analyzed: 11-Jul-16										
Sulfate	20.0	10.0	mg/kg	20.0		100	80-120	16.1	20	
<b>Batch 6071107 - General Prep - Wet Chem</b>										
<b>Blank (6071107-BLK1)</b> Prepared & Analyzed: 11-Jul-16										
Alkalinity, Carbonate	ND	1.00	mg/kg							
Alkalinity, Bicarbonate	ND	5.00	mg/kg							
Alkalinity, Total	ND	4.00	mg/kg							
<b>LCS (6071107-BS1)</b> Prepared & Analyzed: 11-Jul-16										
Alkalinity, Carbonate	ND	1.00	mg/kg				80-120			
Alkalinity, Bicarbonate	122	5.00	mg/kg				80-120			
Alkalinity, Total	100	4.00	mg/kg	100		100	80-120			
<b>LCS Dup (6071107-BSD1)</b> Prepared & Analyzed: 11-Jul-16										
Alkalinity, Carbonate	ND	1.00	mg/kg				80-120		20	
Alkalinity, Bicarbonate	126	5.00	mg/kg				80-120	3.23	20	
Alkalinity, Total	104	4.00	mg/kg	100		104	80-120	3.92	20	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 21-Jul-16 16:35

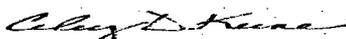
**Volatile Organic Compounds by EPA Method 8021 - Quality Control**
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 6062901 - Volatiles</b>										
<b>Blank (6062901-BLK1)</b>										
Prepared & Analyzed: 29-Jun-16										
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		97.3	73.6-140			
<b>LCS (6062901-BS1)</b>										
Prepared & Analyzed: 29-Jun-16										
Benzene	1.86	0.050	mg/kg	2.00		93.0	82.6-122			
Toluene	1.76	0.050	mg/kg	2.00		87.8	72.9-122			
Ethylbenzene	1.67	0.050	mg/kg	2.00		83.4	65.4-131			
Total Xylenes	5.12	0.150	mg/kg	6.00		85.3	73.8-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0489		mg/kg	0.0500		97.9	73.6-140			
<b>LCS Dup (6062901-BSD1)</b>										
Prepared & Analyzed: 29-Jun-16										
Benzene	1.82	0.050	mg/kg	2.00		90.8	82.6-122	2.42	8.23	
Toluene	1.71	0.050	mg/kg	2.00		85.6	72.9-122	2.50	8.71	
Ethylbenzene	1.62	0.050	mg/kg	2.00		81.1	65.4-131	2.81	9.46	
Total Xylenes	4.98	0.150	mg/kg	6.00		83.0	73.8-125	2.70	8.66	
Surrogate: 4-Bromofluorobenzene (PID)	0.0494		mg/kg	0.0500		98.9	73.6-140			

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

T-N-T ENVIRONMENTAL 70 OJITO ROAD LINDRITH NM, 87029	Project: QUARTERLY VADOZE Project Number: NONE GIVEN Project Manager: CRAIG SCHMITZ Fax To: (575) 774-9116	Reported: 21-Jul-16 16:35
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**Petroleum Hydrocarbons by GC FID - Quality Control**
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6062812 - General Prep - Organics**
**Blank (6062812-BLK1)**

Prepared: 28-Jun-16 Analyzed: 29-Jun-16

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	42.8		mg/kg	50.0		85.7	35-147			
Surrogate: 1-Chlorooctadecane	45.8		mg/kg	50.0		91.7	28-171			

**LCS (6062812-BS1)**

Prepared: 28-Jun-16 Analyzed: 29-Jun-16

GRO C6-C10	199	10.0	mg/kg	200		99.7	76.7-115			
DRO >C10-C28	205	10.0	mg/kg	200		103	78.3-122			
Total TPH C6-C28	405	10.0	mg/kg	400		101	79.8-117			
Surrogate: 1-Chlorooctane	45.2		mg/kg	50.0		90.5	35-147			
Surrogate: 1-Chlorooctadecane	47.2		mg/kg	50.0		94.3	28-171			

**LCS Dup (6062812-BSD1)**

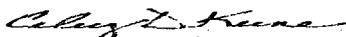
Prepared: 28-Jun-16 Analyzed: 29-Jun-16

GRO C6-C10	197	10.0	mg/kg	200		98.4	76.7-115	1.23	9.42	
DRO >C10-C28	196	10.0	mg/kg	200		98.2	78.3-122	4.39	13.2	
Total TPH C6-C28	393	10.0	mg/kg	400		98.3	79.8-117	2.82	10.7	
Surrogate: 1-Chlorooctane	43.8		mg/kg	50.0		87.6	35-147			
Surrogate: 1-Chlorooctadecane	44.8		mg/kg	50.0		89.6	28-171			

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

T-N-T ENVIRONMENTAL 70 OJITO ROAD LINDRITH NM, 87029	Project: QUARTERLY VADOZE Project Number: NONE GIVEN Project Manager: CRAIG SCHMITZ Fax To: (575) 774-9116	Reported: 21-Jul-16 16:35
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**General Chemistry - Quality Control**
**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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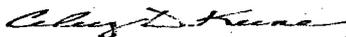
**Batch B607087 - General Prep - Wet Chem**

<b>Duplicate (B607087-DUP1)</b>	<b>Source: H601430-09</b>		<b>Prepared &amp; Analyzed: 13-Jul-16</b>							
% Dry Solids	94.8		%		94.8			0.00	20	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 21-Jul-16 16:35

**Total Metals by ICP - Quality Control**  
**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B607069 - EPA 3050**
**Blank (B607069-BLK1)**

Prepared &amp; Analyzed: 12-Jul-16

Chromium	ND	0.050	mg/kg dry							
Arsenic	ND	0.100	mg/kg dry							
Magnesium	ND	1.00	mg/kg dry							
Sodium	ND	2.00	mg/kg dry							
Selenium	ND	0.200	mg/kg dry							
Barium	ND	0.010	mg/kg dry							
Cadmium	ND	0.050	mg/kg dry							
Calcium	ND	1.00	mg/kg dry							
Lead	ND	0.100	mg/kg dry							
Potassium	ND	2.00	mg/kg dry							
Silver	ND	0.050	mg/kg dry							

**LCS (B607069-BS1)**

Prepared &amp; Analyzed: 12-Jul-16

Sodium	6.55	2.00	mg/kg dry	6.48		101	85-115			
Selenium	8.19	0.200	mg/kg dry	8.00		102	85-115			
Lead	1.97	0.100	mg/kg dry	2.00		98.5	85-115			
Arsenic	4.06	0.100	mg/kg dry	4.00		102	85-115			
Chromium	2.03	0.050	mg/kg dry	2.00		101	85-115			
Magnesium	19.9	1.00	mg/kg dry	20.0		99.4	85-115			
Barium	2.05	0.010	mg/kg dry	2.00		102	85-115			
Cadmium	1.97	0.050	mg/kg dry	2.00		98.7	85-115			
Silver	0.087	0.050	mg/kg dry	0.100		87.5	85-115			
Calcium	4.14	1.00	mg/kg dry	4.00		104	85-115			
Potassium	7.98	2.00	mg/kg dry	8.00		99.7	85-115			

**LCS Dup (B607069-BSD1)**

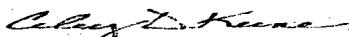
Prepared &amp; Analyzed: 12-Jul-16

Sodium	6.59	2.00	mg/kg dry	6.48		102	85-115	0.718	20	
Silver	0.088	0.050	mg/kg dry	0.100		88.0	85-115	0.568	20	
Selenium	8.42	0.200	mg/kg dry	8.00		105	85-115	2.82	20	
Potassium	8.04	2.00	mg/kg dry	8.00		101	85-115	0.815	20	
Chromium	2.05	0.050	mg/kg dry	2.00		102	85-115	1.04	20	
Arsenic	4.17	0.100	mg/kg dry	4.00		104	85-115	2.70	20	
Calcium	4.16	1.00	mg/kg dry	4.00		104	85-115	0.431	20	

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 T-N-T ENVIRONMENTAL  
 70 OJITO ROAD  
 LINDRITH NM, 87029

 Project: QUARTERLY VADOZE  
 Project Number: NONE GIVEN  
 Project Manager: CRAIG SCHMITZ  
 Fax To: (575) 774-9116

 Reported:  
 21-Jul-16 16:35

**Total Metals by ICP - Quality Control**  
**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B607069 - EPA 3050**
**LCS Dup (B607069-BSD1)**

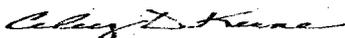
Prepared &amp; Analyzed: 12-Jul-16

Cadmium	1.98	0.050	mg/kg dry	2.00		98.9	85-115	0.160	20	
Lead	2.00	0.100	mg/kg dry	2.00		100	85-115	1.56	20	
Barium	2.06	0.010	mg/kg dry	2.00		103	85-115	0.498	20	
Magnesium	20.1	1.00	mg/kg dry	20.0		100	85-115	0.990	20	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

T-N-T ENVIRONMENTAL 70 OJITO ROAD LINDRITH NM, 87029	Project: QUARTERLY VADOZE Project Number: NONE GIVEN Project Manager: CRAIG SCHMITZ Fax To: (575) 774-9116	Reported: 21-Jul-16 16:35
--	---	------------------------------

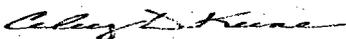
**Total Mercury by CVAA - Quality Control**  
**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B607010 - EPA 245.1/7470</b>										
<b>Blank (B607010-BLK1)</b>										
Prepared: 07-Jul-16 Analyzed: 08-Jul-16										
Mercury	ND	0.0002	mg/kg wet							
<b>LCS (B607010-BS1)</b>										
Prepared: 07-Jul-16 Analyzed: 08-Jul-16										
Mercury	0.0020	0.0002	mg/kg wet	0.00200		98.7	85-115			
<b>LCS Dup (B607010-BSD1)</b>										
Prepared: 07-Jul-16 Analyzed: 08-Jul-16										
Mercury	0.0019	0.0002	mg/kg wet	0.00200		97.2	85-115	1.58	20	

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

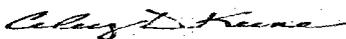
- H1 Sample was received several days after collected and subsequently analyzed past hold time.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- 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**

1052

(970) 247-4220 service@greenanalytical.com or dzufelt@greenanalytical.com  
 Fax: (970) 247-4227 75 Suttle St Durango, CO 81303

Company Name (if Applicable): <b>TMT ENVIRONMENTAL INC.</b>		Bill to (if different):		<b>ANALYSIS REQUEST</b>			
Contact Person:		P.O. #:					
Address: <b>70 CR405</b>		Company:					
City: <b>LINDRITH</b> State: <b>N.M.</b> Zip: <b>87029</b>		Attn:					
Phone #: <b>575-774-6504</b>		Address:					
Email: <b>Schmitz@nt@yghoo.com</b>		City:					
Project Name (optional): <b>QUARTERLY VADOZE</b>		State: Zip:					
Project Number (optional):		Phone #:		<b>TAM 3015M EXTENDED</b> <b>BTX 8021B</b> <b>CHLORIDE 5M 4500 CI-B</b> <b>MAJOR CATIONS, ANIONS</b> <b>8 RCRA METALS 6010B</b>			
Sampler Name (Print): <b>TANY SCHMITZ</b>		Email:					

For Lab Use	Sample Name or Location	Collected		Matrix (check one)								# of containers				
		Date	Time	GROUNDWATER	SURFACEWATER	WASTEWATER	PRODUCEDWATER	SOIL	DRINKING WATER	OTHER:	No preservation (general)	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	Other:	Other:
	CELL	6/22/16							<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>					
	#2		8:30													
	#3		9:00													
	#4		9:30													
	#5		10:00													
	#6		10:30													
	#7		11:00													
	#8		11:30													
	#9		12:00													
	#10		1:30													

PLEASE NOTE: GAL'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 the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by GAL within 30 days after completion. In no event shall GAL 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 GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: <b>6/24/16</b>	Received By: <b>Christina Clark</b>	ADDITIONAL REMARKS:	Report to State? (Circle) Yes No
	Time: <b>4:00</b>			
Relinquished By:	Date:	Received By:		
Relinquished By:	Date:	Received By:		
Delivered By: (Circle One) Sampler - UPS - FedEx - Kangaroo - Other:	Temperature at receipt: <b>17.00°C</b>	CHECKED BY: <b>CL</b>		

† GAL cannot always accept verbal changes. Please fax or email written change requests.  
 \* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.



575-393-2326

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

20F2

(970) 247-4220 service@greenanalytical.com or dzufelt@greenanalytical.com  
 Fax: (970) 247-4227 75 Suttle St Durango, CO 81303

Company Name (if Applicable): <u>T-N-T ENVIRONMENTAL INC.</u>		Bill to (if different):		<b>ANALYSIS REQUEST</b>					
Contact Person:		P.O. #:							
Address: <u>70 CR405</u>		Company:							
City: <u>LINDRITH</u> State: <u>N.M.</u> Zip: <u>87029</u>		Attn:							
Phone #: <u>575-774-6504</u>		Address:							
Email: <u>Schmitzent@yahoo.com</u>		City:							
Project Name (optional): <u>QUARTERLY VAJOZE</u>		State: Zip:							
Project Number (optional):		Phone #:							
Sampler Name (Print): <u>TONY SCHMITZ</u>		Email:		<u>T.P.H 8015M EXTENDED</u> <u>BTEX 8021B</u> <u>CHLORIDE 3M 4500 CI-B</u> <u>MAJOR CATIONS, ANIONS</u> <u>8 RCRA METALS 6010 B</u>					

For Lab Use	Sample Name or Location	Collected		Matrix (check one)							# of containers					
		Date	Time	GROUNDWATER	SURFACEWATER	WASTEWATER	PRODUCEDWATER	SOIL	DRINKING WATER	OTHER:	No preservation (general)	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	Other:	Other:
	CELL #11	6/22/16	2:00					<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>					
	#12	↓	2:30					<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>					
	#13	↓	3:00					<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>					

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Relinquished By:	Date: <u>6/24/16</u> Time: <u>4:00</u>	Received By: <u>Christa Clark</u>	ADDITIONAL REMARKS:	Report to State? (Circle) Yes No
Relinquished By:	Date:	Received By:		
Relinquished By:	Date:	Received By:		
Relinquished By:	Date:	Received By:		
Delivered By: (Circle One) Sampler - UPS - FedEx - Kangaroo - Other:	Temperature at receipt: <u>17°C</u>	CHECKED BY: <u>CC</u>		

† GAL cannot always accept verbal changes. Please fax or email written change requests.  
 Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.

T-n-T Environmental Inc.  
 HCR 74 Box 113  
 Lindrith NM 87029

Project: Project LandFarm  
 Name: Vadoze  
 Project Manager: Craig Schmitz

Cell # 2  
 Vadoze

	Sample Date						
	9/26/1994	11/4/2015	6/22/2016				
TPH	Back Ground	Results	Results	Results	Results	Results	Results
8015M							
GRO	ND	ND	ND				
DRO	ND	ND	ND				
EXT DRO		ND	ND				
418.1							

BTEX 8021B							
Benzene	ND	ND	ND				
Toluene	ND	ND	ND				
Ethylbenzene	ND	ND	ND				
Total Xylenes	ND	ND	ND				
Total BTEX	ND	ND	ND				

Chloride	4.57	35	ND				
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Metals, WQCC A & B Metals							
Arsenic	0.158	ND	ND				
Barium	136	199	88.4				
Cadmium	0.0811	ND	ND				
Chromium	20.5	24.1	3340				
Copper							
Iron	15500						
Lead	4.92	ND	ND				
Mercury	ND	ND	ND				
Selenium	1.04	ND	ND				
silver	ND	ND	ND				
Manganese							
Zinc							

T-n-T Environmental Inc.  
 HCR 74 Box 113  
 Lindrith NM 87029

Project: Project LandFarm  
 Name: Vadoze  
 Project Manager: Craig Schmitz

Cell # 3  
 Vadoze

	Sample Date						
	9/26/1994	11/4/2015	6/22/2016				
TPH	Back Ground	Results	Results	Results	Results	Results	Results
8015M							
GRO	ND	ND	ND				
DRO	ND	ND	ND				
EXT DRO		ND	ND				
418.1							

BTEX 8021B							
Benzene	ND	ND	ND				
Toluene	ND	ND	ND				
Ethylbenzene	ND	ND	ND				
Total Xylenes	ND	ND	ND				
Total BTEX	ND	ND	ND				

Chloride	4.57	48	ND				
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Metals, WQCC A & B Metals							
Arsenic	0.158	ND	ND				
Barium	136	185	91.8				
Cadmium	0.0811	ND	ND				
Chromium	20.5	21	14.3				
Copper							
Iron	15500						
Lead	4.92	ND	ND				
Mercury	ND	ND	ND				
Selenium	1.04	ND	ND				
silver	ND	ND	ND				
Manganese							
Zinc							

T-n-T Environmental Inc.  
 HCR 74 Box 113  
 Lindrith NM 87029

Project: Project LandFarm  
 Name: Vadoze  
 Project Manager: Craig Schmitz

Cell # 4  
 Vadoze

	Sample Date						
	9/26/1994	11/4/2015	6/22/2016				
TPH	Back Ground	Results	Results	Results	Results	Results	Results
8015M							
GRO	ND	ND	ND				
DRO	ND	ND	ND				
EXT DRO		ND	ND				
418.1							

BTEX 8021B							
Benzene	ND	ND	ND				
Toluene	ND	ND	ND				
Ethylbenzene	ND	ND	ND				
Total Xylenes	ND	ND	ND				
Total BTEX	ND	ND	ND				

Chloride	4.57	32	ND				
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Metals, WQCC A & B Metals							
Arsenic	0.158	ND	ND				
Barium	136	205	97.5				
Cadmium	0.0811	ND	ND				
Chromium	20.5	25.4	17.3				
Copper							
Iron	15500						
Lead	4.92	ND	ND				
Mercury	ND	ND	ND				
Selenium	1.04	ND	ND				
silver	ND	ND	ND				
Manganese							
Zinc							

T-n-T Environmental Inc.  
 HCR 74 Box 113  
 Lindrith NM 87029

Project: Project LandFarm  
 Name: Vadoze  
 Project Manager: Craig Schmitz

Cell # 5  
 Vadoze

	Sample Date						
	10/17/2000	11/4/2015	6/22/2016				
TPH	Back Ground	Results	Results	Results	Results	Results	Results
8015M							
GRO		ND	ND				
DRO		ND	ND				
EXT DRO		ND	ND				
418.1	62						

BTEX 8021B							
Benzene	ND	ND	ND				
Toluene	ND	ND	ND				
Ethylbenzene	ND	ND	ND				
Total Xylenes	ND	ND	ND				
Total BTEX	ND	ND	ND				

Chloride		32	ND				
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Metals, WQCC A & B Metals							
Arsenic	10	ND	ND				
Barium	124	209	89.7				
Cadmium	0.5	ND	ND				
Chromium	17	24.2	16				
Copper							
Iron	15500						
Lead	6	ND	ND				
Mercury	ND	ND	ND				
Selenium	ND	ND	ND				
silver	3	ND	ND				
Manganese							
Zinc							

T-n-T Environmental Inc.  
 HCR 74 Box 113  
 Lindrith NM 87029

Project: Project LandFarm  
 Name: Vadoze  
 Project Manager: Craig Schmitz

Cell # 6  
 Vadoze

	Sample Date						
	10/17/2000	11/4/2015	6/22/2016				
TPH	Back Ground	Results	Results	Results	Results	Results	Results
8015M							
GRO		ND	ND				
DRO		ND	ND				
EXT DRO		ND	ND				
418.1	62						

BTEX 8021B							
Benzene	ND	ND	ND				
Toluene	ND	ND	ND				
Ethylbenzene	ND	ND	ND				
Total Xylenes	ND	ND	ND				
Total BTEX	ND	ND	ND				

Chloride		32	ND				
----------	--	----	----	--	--	--	--

Metals, WQCC A & B Metals							
Arsenic	7	ND	ND				
Barium	120	191	108				
Cadmium	0.5	ND	ND				
Chromium	16	23.2	18.2				
Copper							
Iron							
Lead	6	ND	ND				
Mercury	ND	ND	ND				
Selenium	ND	ND	ND				
silver	ND	ND	ND				
Manganese							
Zinc							

T-n-T Environmental Inc.  
 HCR 74 Box 113  
 Lindrith NM 87029

Project: Project LandFarm  
 Name: Vadoze  
 Project Manager: Craig Schmitz

Cell # 7  
 Vadoze

	Sample Date						
	12/4/2008	11/4/2015	6/22/2016				
TPH	Back Ground	Results	Results	Results	Results	Results	Results
8015M							
GRO		ND	ND				
DRO	ND	ND	ND				
EXT DRO		ND	ND				
418.1							

BTEX 8021B							
Benzene	ND	ND	ND				
Toluene	ND	ND	ND				
Ethylbenzene	ND	ND	ND				
Total Xylenes	ND	ND	ND				
Total BTEX	ND	ND	ND				

Chloride	12.8	48	ND				
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Metals, WQCC A & B Metals							
Arsenic	ND	ND	ND				
Barium	150	185	111				
Cadmium	ND	ND	ND				
Chromium	18.1	21.5	16.6				
Copper							
Iron							
Lead	4.3	ND	ND				
Mercury	ND	ND	ND				
Selenium	ND	ND	ND				
silver	ND	ND	ND				
Manganese							
Zinc							

T-n-T Environmental Inc.  
 HCR 74 Box 113  
 Lindrith NM 87029

Project: Project LandFarm  
 Name: Vadoze  
 Project Manager: Craig Schmitz

Cell # 8  
 Vadoze

	Sample Date						
	12/4/2008	11/4/2015	6/22/2016				
TPH	Back Ground	Results	Results	Results	Results	Results	Results
8015M							
GRO		ND	ND				
DRO	ND	ND	ND				
EXT DRO		ND	ND				
418.1							

BTEX 8021B							
Benzene	ND	ND	ND				
Toluene	ND	ND	ND				
Ethylbenzene	ND	ND	ND				
Total Xylenes	ND	ND	ND				
Total BTEX	ND	ND	ND				

Chloride	8.75	32	ND				
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Metals, WQCC A & B Metals							
Arsenic	ND	ND	ND				
Barium	144	193	92.9				
Cadmium	ND	ND	ND				
Chromium	17.4	23.5	16.9				
Copper							
Iron							
Lead	4.13	ND	ND				
Mercury	21.3	ND	ND				
Selenium	ND	ND	ND				
silver	ND	ND	ND				
Manganese							
Zinc							

T-n-T Environmental Inc.  
 HCR 74 Box 113  
 Lindrith NM 87029

Project: Project LandFarm  
 Name: Vadoze  
 Project Manager: Craig Schmitz

Cell # 9  
 Vadoze

	Sample Date						
	12/4/2008	11/4/2015	6/22/2016				
	Back Ground	Results	Results	Results	Results	Results	Results
TPH							
8015M							
GRO		ND	ND				
DRO	ND	ND	ND				
EXT DRO		ND	ND				
418.1							

BTEX 8021B							
Benzene	ND	ND	ND				
Toluene	ND	ND	ND				
Ethylbenzene	ND	ND	ND				
Total Xylenes	ND	ND	ND				
Total BTEX	ND	ND	ND				

Chloride	ND	32	ND				
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Metals, WQCC							
A & B Metals							
Arsenic	ND	ND	ND				
Barium	136	198	154				
Cadmium	ND	ND	ND				
Chromium	18.2	23	212.5				
Copper							
Iron							
Lead	5.52	ND	ND				
Mercury	20.4	ND	ND				
Selenium	ND	ND	ND				
silver	ND	ND	ND				
Manganese							
Zinc							

T-n-T Environmental Inc.  
 HCR 74 Box 113  
 Lindrith NM 87029

Project: Project LandFarm  
 Name: Vadoze  
 Project Manager: Craig Schmitz

Cell # 10  
 Vadoze

	Sample Date						
	12/4/2008	11/4/2015	6/22/2016				
TPH	Back Ground	Results	Results	Results	Results	Results	Results
8015M							
GRO		ND	ND				
DRO	ND	ND	ND				
EXT DRO		ND	ND				
418.1							

BTEX 8021B							
Benzene	ND	ND	ND				
Toluene	ND	ND	ND				
Ethylbenzene	ND	ND	ND				
Total Xylenes	ND	ND	ND				
Total BTEX	ND	ND	ND				

Chloride	ND	32	ND				
----------	----	----	----	--	--	--	--

Metals, WQCC A & B Metals							
Arsenic	ND	ND	ND				
Barium	134	183	140				
Cadmium	ND	ND	ND				
Chromium	17.9	22.3	18.6				
Copper							
Iron							
Lead	4.7	ND	ND				
Mercury	20.7	ND	ND				
Selenium	ND	ND	ND				
silver	ND	ND	ND				
Manganese							
Zinc							

T-n-T Environmental Inc.  
 HCR 74 Box 113  
 Lindrith NM 87029

Project: Project LandFarm  
 Name: Vadoze  
 Project Manager: Craig Schmitz

Cell # 11  
 Vadoze

	Sample Date						
	5/27/2009	11/4/2015	6/22/2016				
TPH	Back Ground	Results	Results	Results	Results	Results	Results
8015M							
GRO		ND	ND				
DRO	ND	ND	ND				
EXT DRO		ND	ND				
418.1							

BTEX 8021B							
Benzene	ND	ND	ND				
Toluene	ND	ND	ND				
Ethylbenzene	ND	ND	ND				
Total Xylenes	ND	ND	ND				
Total BTEX	ND	ND	ND				

Chloride	ND	48	ND				
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Metals, WQCC A & B Metals							
Arsenic	ND	ND	ND				
Barium	221	197	157				
Cadmium	ND	ND	ND				
Chromium	22.5	22.9	22.7				
Copper							
Iron							
Lead	6.61	ND	ND				
Mercury	ND	ND	ND				
Selenium	ND	ND	ND				
silver	ND	ND	ND				
Manganese							
Zinc							

T-n-T Environmental Inc.  
 HCR 74 Box 113  
 Lindrith NM 87029

Project: Project LandFarm  
 Name: Vadoze  
 Project Manager: Craig Schmitz

Cell # 12  
 Vadoze

	Sample Date					
	5/27/2009	11/4/2015	6/22/2016			
TPH	Back Ground	Results	Results	Results	Results	Results
8015M						
GRO		ND	ND			
DRO	ND	ND	ND			
EXT DRO		ND	ND			
418.1						

BTEX 8021B						
Benzene	ND	ND	ND			
Toluene	ND	ND	ND			
Ethylbenzene	ND	ND	ND			
Total Xylenes	ND	ND	ND			
Total BTEX	ND	ND	ND			

Chloride	ND	32	ND			
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Metals, WQCC A & B Metals						
Arsenic	ND	ND	ND			
Barium	202	198	165			
Cadmium	ND	ND	ND			
Chromium	20.5	22.9	23			
Copper						
Iron						
Lead	5.81	ND	10.5			
Mercury	ND	ND	ND			
Selenium	ND	ND	ND			
silver	ND	ND	ND			
Manganese						
Zinc						
calcium						
magnesium						

T-n-T Environmental Inc.  
 HCR 74 Box 113  
 Lindrith NM 87029

Project: Project LandFarm  
 Name: Vadoze  
 Project Manager: Craig Schmitz

Cell # 13  
 Vadoze

	Sample Date						
	4/19/2010	11/4/2015	6/22/2016				
	Back Ground	Results	Results	Results	Results	Results	Results
TPH							
8015M							
GRO		ND	ND				
DRO		ND	ND				
EXT_DRO		ND	ND				
418.1	ND						

BTEX 8021B							
	ND	ND	ND				
Benzene	ND	ND	ND				
Toluene	ND	ND	ND				
Ethylbenzene	ND	ND	ND				
Total Xylenes	ND	ND	ND				
Total BTEX	ND	ND	ND				

Chloride	ND	48	ND				
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Metals, WQCC A & B Metals							
Arsenic		ND	ND				
Barium		205	154				
Cadmium		ND	ND				
Chromium		26.3	20.3				
Copper							
Iron							
Lead		ND	ND				
Mercury		ND	ND				
Selenium		ND	ND				
silver		ND	ND				
Manganese							
Zinc							
calcium			4660				
magnesium			4720				
potassium			2220				
sodium			ND				

T-n-T Environmental Inc.  
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Project: **Project LandFarm**  
 Name: **Vadoze**  
 Project Manager: **Craig Schmitz**

Cell # 14  
 Vadoze

	Sample Date						
	4/19/2010						
	Back Ground	Results	Results	Results	Results	Results	Results
TPH							
8015M							
GRO							
DRO							
EXT DRO							
418.1	ND						

BTEX 8021B							
Benzene	ND						
Toluene	ND						
Ethylbenzene	ND						
Total Xylenes	ND						
Total BTEX	ND						

Chloride	ND						
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Metals, WQCC A & B Metals							
Arsenic							
Barium							
Cadmium							
Chromium							
Copper							
Iron							
Lead							
Mercury							
Selenium							
silver							
Manganese							
Zinc							