



911 Regional Park Drive  
Houston, Texas 77060  
Tel. 281.872.9300  
www.ntglobal.com

August 5, 2015

Mr. Mike Bratcher  
New Mexico Oil Conservation Division – District 2 Office  
811 South First Street  
Artesia, New Mexico 88210

Re: Remedial Action Report  
Trinity River Energy, LLC  
Buckshot State Com No. 3H Production Facility  
Eddy County, New Mexico

Dear Mr. Bratcher,

At the request of Trinity River Energy, LLC (Trinity), formally Legend Natural Gas II, LLC, New Tech Global Environmental, LLC (NTG Environmental) has prepared this Remedial Action Report (RAR) to document soil remedial actions conducted at the Buckshot State Com No. 3H Production Facility (Site). The Site is located in Eddy County approximately 5.2 miles southwest of Malaga, New Mexico (Figures 1 and 2). The Site is located in a rural area used primarily for oil and gas exploration and production. The Site coordinates are Latitude: 32.166889, Longitude: -104.129959 (WGS 84).

### **Background**

On July 29, 2014, a gasket failure on a heated oil and gas separator resulted in the release of approximately 10 to 12 barrels (bbls) of crude oil and produced water into a lined containment area and the well pad. A spark of unknown source caused the ignition of released fluids within the containment area, resulting in the destruction of the lined containment. No released fluids were recovered. The total impacted area measured approximately 1,200 square feet (ft<sup>2</sup>).

On July 30, 2014, the release was reported to the New Mexico Oil Conservation Division (NMOCD). The original and the updated Release Notification and Corrective Action Forms (Form C-141) are attached. After reporting the release, Trinity contract personnel removed equipment and secondary containment, excavated visually impacted soil, blended, and stockpiled the excavated soil on a high-density polyethylene (HDPE) liner.

On August 12, 2014 NTG Environmental arrived at the Site to collect soil confirmation samples from the excavation base to determine if remedial activities conducted to date by Trinity were sufficient to remove impacted soils. Initial and additional assessment activities are described in subsequent sections of this letter.

Soil Sample Collection and Analysis

NTG Environmental collected a total of nine (9) soil confirmation samples and a soil background sample during four assessment events between August, 2014 and January, 2015. Confirmation samples were collected from the excavation base in 0.5 foot intervals with either a clean sharpshooter shovel or geotechnical hand auger. Sampling equipment was decontaminated using Alconox<sup>®</sup> and deionized water to eliminate cross contamination. Sample locations are shown on the attached Site Plat (Figure 3).

The two initial confirmation samples (i.e. CS-1 1ft, and CS-2 1ft) were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), total petroleum hydrocarbons (TPH), and chlorides. Following the determination that BTEX and TPH were no longer constituents of concern (COC), samples collected during subsequent events were only analyzed for chlorides.

All samples were collected using nitrile gloved hands, placed in laboratory provided sample containers, stored on ice, and transported under proper chain-of-custody protocol to ESC Laboratories in Mt. Juliet, Tennessee for chemical analysis. Laboratory reports containing analytical methods, results, and chain-of-custody documents are attached. Analytical results are presented in Table 1.

Soil Analytical Results

Analytical results for soil samples collected by NTG Environmental are presented in Table 3, below.

**Table 1. Soil Analytical Results**

Sample ID and Depth (ft bgs)	Date	Petroleum Hydrocarbons (mg/kg)						Chloride (mg/kg)
		Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	TPH	
CS-1 1'	08/12/14	<0.00012	0.00091	<0.00011	<0.00046	0.00091	<2.0	570
CS-2 1'	08/12/14	<0.00012	<0.00015	<0.00011	<0.00046	<0.00046	4.2	6,700
Background 0.5'	09/02/14	--	--	--	--	--	--	130
CS-1 2.5'	09/02/14	--	--	--	--	--	--	880
CS-2 2.5'	09/02/14	--	--	--	--	--	--	900
CS-1 2'	12/01/14	--	--	--	--	--	--	11,000
CS-2 2'	12/01/14	--	--	--	--	--	--	2,800
CS-1 2.5' A	12/01/14	--	--	--	--	--	--	570
CS-2 2.5' A	12/01/14	--	--	--	--	--	--	430
CS-1 3'	12/01/14	--	--	--	--	--	--	1,600
CS-2 3'	12/01/14	--	--	--	--	--	--	400
CS-1 3.5'	01/22/15	--	--	--	--	--	--	79

-- not analyzed  
 ft bgs – feet below ground surface  
 mg/kg – milligrams per kilogram  
 BTEX – benzene, toluene, ethylbenzene, and xylenes  
 TPH – total petroleum hydrocarbons

The excavation was backfilled with clean fill material between and following all sampling events conducted by NTG Environmental.

Following the excavation of all affected soil, Viper Production Services (VPS) collected and field screened five (5) soil samples from the approximate 250 cubic yard (yd<sup>3</sup>) soil stockpile for chloride. Field screening results provided by Viper are presented below in Table 2.

**Table 2. Field Screening Results**

Sample ID	Chloride (mg/kg)
NW	720
NE	62
SE	1,020
SW	840
S	860
<b>Average</b>	<b>812</b>

mg/kg – milligrams per kilogram

**Closing**

Based on the analytical results, NTG Environmental concludes that all impacted soils were successfully excavated. The results of the stockpile field screening activities indicate the average chloride concentration of the excavated soils is 812 mg/kg. Based on information provided by Trinity, the stockpiled soils were utilized to repair the secondary containment and to repair or fortify well pads or roads.

If you have any questions regarding this letter or need further information, please contact us at (281)872-9300.

Sincerely,  
NTG Environmental



Philip Moore  
Staff Scientist

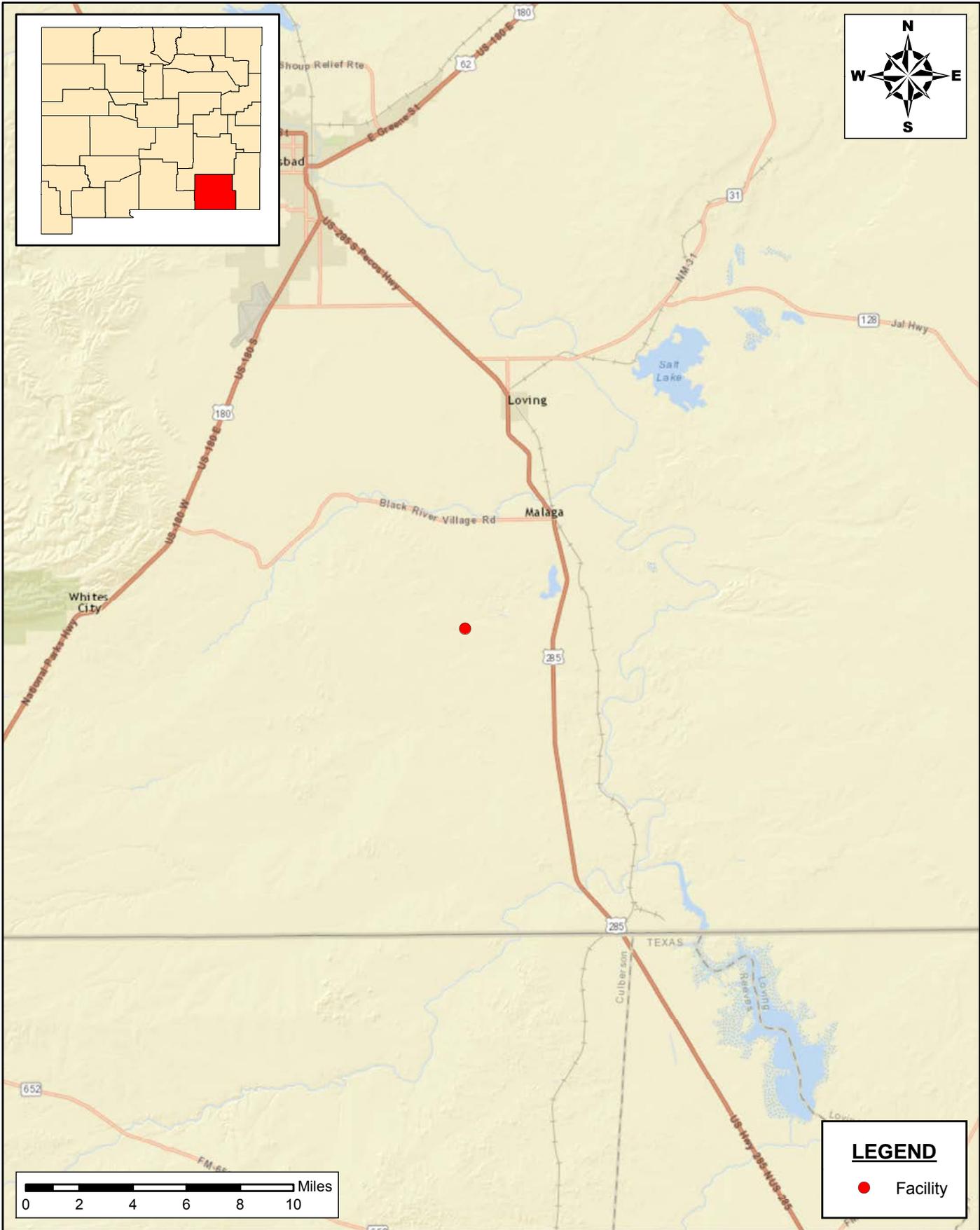
Gordon



Banks, REM, CSEM, CESCO  
Senior Project Manager

Attachments: Figures  
C-141 Forms  
Laboratory Reports and Chain-of-Custody Documents

Document Path: P:\2014 PROJECTS\LEGEND (LEGE)\RSC\LEGE-R1412537 - GIS\Geodatabase\LEGE\_R141253\_RAR\_FIG 1\_SLM\Map\_08042015.mxd



**LEGEND**

- Facility

**SITE LOCATION MAP**  
**REMEDIAL ACTION REPORT**  
 TRINITY RIVER ENERGY, LLC  
 BUCKSHOT STATE COM NO. 3H  
 EDDY COUNTY, NEW MEXICO"

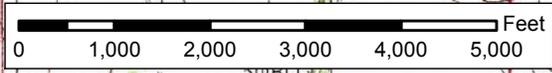
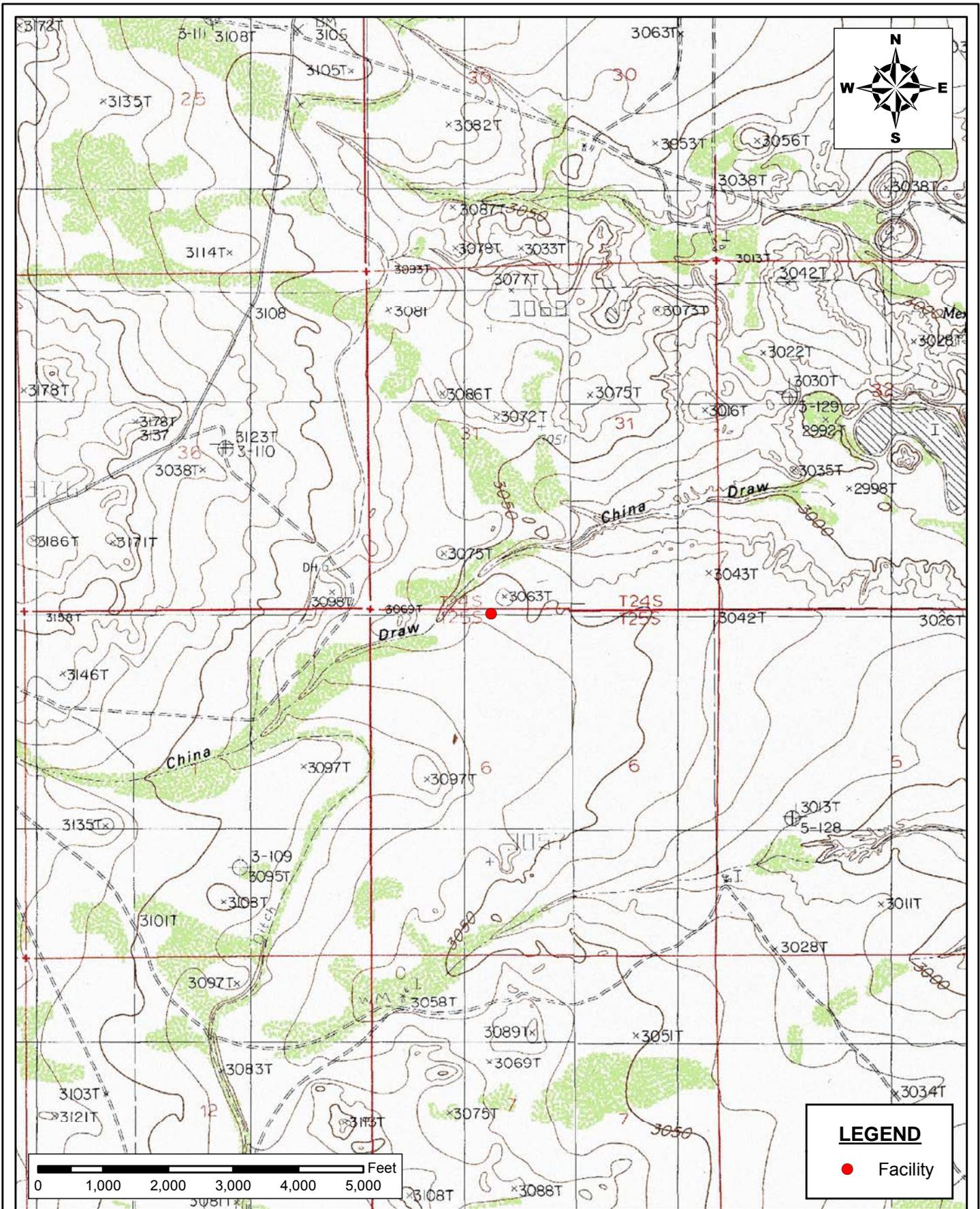
SCALE: As Shown    DATE: 08/04/2015    PROJECT #: LEGE-R141253

  
**New Tech Global Environmental, LLC**  
 911 Regional Park Drive  
 Houston, Texas 77060  
 T - 281.872.9300  
 F - 281.872.4521  
 Web: www.ntglobal.com

**NOTES:**  
 1. Base Image: ESRI Maps & Data 2013  
 2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:  
**FIGURE 1**  
 SHEET NUMBER:  
**1 of 1**

Document Path: P:\2014 PROJECTS\LEGEND (LEGE)\RSC\LEGE-R1412537 - GIS\Geodatabase\LEGE\_R141253\_RAR\_FIG 2\_Area Map\_08042015.mxd



**LEGEND**

- Facility

**AREA MAP**  
**REMEDIAL ACTION REPORT**  
 TRINITY RIVER ENERGY, LLC  
 BUCKSHOT STATE COM NO. 3H  
 EDDY COUNTY, NEW MEXICO

SCALE: As Shown    DATE: 08/04/2015    PROJECT #: LEGE-R141253

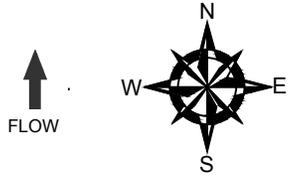
**NTG**  
 New Tech Global Environmental, LLC  
 911 Regional Park Drive  
 Houston, Texas 77060  
 T - 281.872.9300  
 F - 281.872.4521  
 Web: www.ntglobal.com

**NOTES:**  
 1. Base Image: USDA, NRCS-NGCG 2002  
 2. Map Projection: NAD 1983 UTM Zone 13N

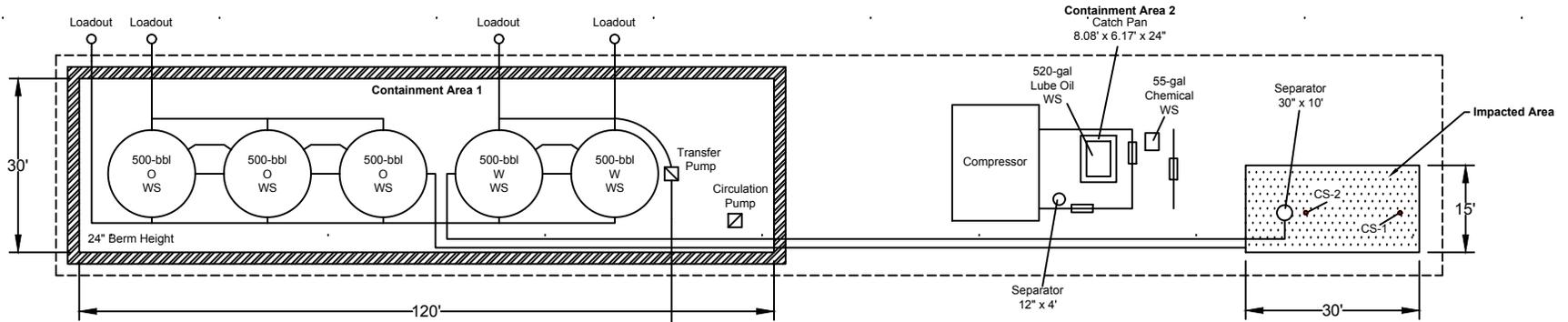
DRAWING NUMBER:  
**FIGURE 2**  
 SHEET NUMBER:  
**1 of 1**

**LEGEND:**

	Aboveground Flowline
	Fence / Pipe Railing
	Meter
	Corrugated Steel Berm
WS	Welded Steel
O	Oil
W	Water



Buckshot No. 3H  
Wellhead



SHEET NUMBER:  
 1 of 1  
 DRAWING NUMBER:  
 FIGURE 3

**SITE PLAT**  
**REMEDIATION ACTION REPORT**  
 TRINITY RIVER ENERGY, LLC  
 BUCKSHOT NO. 3H PRODUCTION FACILITY  
 EDDY COUNTY, NEW MEXICO

SCALE: Not to Scale	DATE: 08/04/2015	PROJECT #: LEGE-R141253
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**New Tech Global Environmental, LLC**  
 911 Regional Park Drive  
 Houston, Texas 77060  
 T - 281.872.9300  
 F - 281.872.4521  
 Web - www.ntceg.com

**NOTES:**

1. Site Coordinates (NAD 83): 32.1664, -104.1294
2. CS-1: 32.16671, -104.12937
3. CS-2: 32.16668, -104.12945

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-141  
Revised August 8, 2011

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**

X Initial Report  Final Report

Name of Company Legend Natural Gas III, LP	Contact: Brad R. Bingham
Address	Telephone No.: 817-872-7808
Facility Name: Buckshot State Com 3H	Facility Type: Well Location

Surface Owner: State of New Mexico	Mineral Owner: State of New Mexico	API No.: 30-015-41094
------------------------------------	------------------------------------	-----------------------

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	31	24S	28E	100	South	1700	West	Eddy

Latitude N 32 10'00.57" Longitude W 104 07'48.09"

**NATURE OF RELEASE**

Type of Release release of separator contents resulted in fire	Volume of Release est 10-12 bbls	Volume Recovered NA
Source of Release separator	Date and Hour of Occurrence 7/29/2014 approx. 3:00 p.m.	Date and Hour of Discovery 7/29/2014 Approx. 3:00 p.m.
Was Immediate Notice Given? Within 24 hrs X Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Randy Dade NM OCD	
By Whom? Brad R. Bingham	Date and Hour 7/30/2014 12:45 p.m.	
Was a Watercourse Reached? X Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

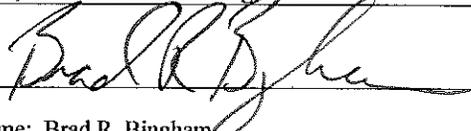
Describe Cause of Problem and Remedial Action Taken.\*

Well was being brought back online when separator gasket failed. Spewed contents of separator (10-12 bbls of oil/produced water mix) into lined containment and some on pad. Well was shut in immediately by onsite personnel. Oil/gas ignited by fire tube? and burned for approx. 45 minutes, liner smoldered for another 45 minutes. Burn area on pad is approx. 10x20 ft. No injuries occurred and Malaga FD responded to reported fire. After fire burned itself out, site was secured and left until this morning to assess cause and result.

Describe Area Affected and Cleanup Action Taken.\*

We are removing equipment and containment at this time. Once removed, we will take out affected soil for disposal and/or treatment. Confirmation samples will be collected in the affected area(s) and analyzed for TPH, BTEX, and chlorides after affected soil removal. Once we have received confirmation sample results, we will replace the secondary containment and equipment.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Brad R. Bingham	Approved by Environmental Specialist:	
Title: HSE/Regulatory Manager	Approval Date:	Expiration Date:
E-mail Address: bbingham@lng2.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 7/30/2014	Phone: 817-872-7808	

\* Attach Additional Sheets If Necessary

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-141  
Revised August 8, 2011

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company Legend Natural Gas, LLC	Contact Brad Bingham
Address 777 Main St Suite 3600 Fort Worth, TX 76102	Telephone No. 817-872-7808
Facility Name Buckshot State West	Facility Type Well Location

Surface Owner State of New Mexico	Mineral Owner State of New Mexico	API No. 30-015-41094
-----------------------------------	-----------------------------------	----------------------

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	31	24S	28E	100	South	1700	West	Eddy

Latitude 32.1668 Longitude -104.1300

**NATURE OF RELEASE**

Type of Release: Release of separator contents resulted in a fire	Volume of Release: 10-12 bbls	Volume Recovered NA
Source of Release: Separator	Date and Hour of Occurrence 7/29/2014 approx 3:00pm	Date and Hour of Discovery 7/29/2014 approx 3:00pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Randy Dade NMOCD	
By Whom? Brad R. Bingham	Date and Hour 7/30/2014 12:45pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

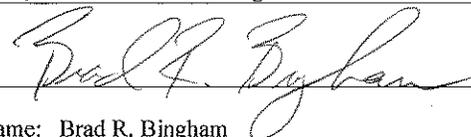
Describe Cause of Problem and Remedial Action Taken.\*

Well was being brought back online when a separator gasket failed. Spewed contents of separator (10-12 bbls of oil/produced water mix) into a lined containment and some on pad. Well was shut in immediately by onsite personnel. Oil/gas ignited by fire tube? And burned for approx. 45 minutes, liner smoldered for another 45 minutes. Burn area on pad is approx. 10x20 ft. No injuries occurred and Malaga FD responded to reported fire. After fire burned itself out, the site was secured and left until the morning to assess the cause and result.

Describe Area Affected and Cleanup Action Taken.\*

The equipment and containment was removed. Once removed, confirmation samples were collected. Clean soil was used to replace the containment. Confirmation sampling was conducted three times due to elevated chloride concentrations first two samples exhibiting elevated concentrations. Each time material (including imported "clean" material used as backfill) was removed from the excavation for sampling, it was placed in the impacted soil stockpile and blended. Final testing of this material showed an average chloride concentration of approximately 812 ppm. An estimated volume of 250 yards of blended soil was removed from the impact area between July and December 2014. This material was used primarily to repair secondary containment with some used on pads and roads as well.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	<b>OIL CONSERVATION DIVISION</b>		
Printed Name: Brad R. Bingham	Approved by Environmental Specialist:		
Title: HSE/Regulatory Manager	Approval Date:	Expiration Date:	
E-mail bbingham@trinityriverenergy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: August 3, 2015	Phone: 817-689-1343		

\* Attach Additional Sheets If Necessary



12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Matthew Green  
NTCEG - Spring, TX  
911 Regional Park Dr  
Houston, TX 77060

## Report Summary

Tuesday August 19, 2014

Report Number: L715666

Samples Received: 08/13/14

Client Project: LEGE-R141253

Description: Legend Buckshot 3H

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Mark W. Beasley , ESC Representative

### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,  
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,  
NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002,  
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,  
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,  
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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 Mt. Juliet, TN 37122  
 (615) 758-5858  
 1-800-767-5859  
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Matthew Green  
 NTCEG - Spring, TX  
 911 Regional Park Dr  
 Houston, TX 77060

August 19, 2014

Date Received : August 13, 2014  
 Description : Legend Buckshot 3H  
 Sample ID : CS-1 1FT  
 Collected By : Matthew Green  
 Collection Date : 08/12/14 10:57

ESC Sample # : L715666-01  
 Site ID :  
 Project # : LEGE-R141253

Parameter	Result	MDL	SDL	MQL	Units	Qual	Method	Date	Dil.
Chloride	570	0.80	0.90	11.	mg/kg		9056	08/15/14	1
Total Solids	89.0	0.0333	0.033		%		2540 G-2	08/16/14	1
Benzene	U	0.00012	0.00067	0.0028	mg/kg		8021	08/17/14	5
Toluene	0.00091	0.00015	0.00084	0.028	mg/kg	J	8021	08/17/14	5
Ethylbenzene	U	0.00011	0.00062	0.0028	mg/kg		8021	08/17/14	5
Total Xylene	U	0.00046	0.0026	0.0084	mg/kg		8021	08/17/14	5
TPH (GC/FID) Low Fraction	U	0.050	0.28	0.56	mg/kg		8015	08/17/14	5
Surrogate Recovery-%									
a,a,a-Trifluorotoluene(FID)	96.8				% Rec.		8015	08/17/14	5
a,a,a-Trifluorotoluene(PID)	101.				% Rec.		8021	08/17/14	5
Diesel and Oil Ranges									
C10-C28 Diesel Range	U	2.0	2.2	4.5	mg/kg		8015	08/18/14	1
C28-C40 Oil Range	U	2.0	2.2	4.5	mg/kg		8015	08/18/14	1
Surrogate Recovery									
o-Terphenyl	82.9				% Rec.		8015	08/18/14	1

Results listed are dry weight basis.  
 U = ND (Not Detected) = Less than SDL

Note:  
 This report shall not be reproduced, except in full, without the written approval from ESC.  
 The reported analytical results relate only to the sample submitted

Reported: 08/19/14 15:19 Printed: 08/19/14 15:19



12065 Lebanon Rd.  
 Mt. Juliet, TN 37122  
 (615) 758-5858  
 1-800-767-5859  
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Matthew Green  
 NTCEG - Spring, TX  
 911 Regional Park Dr  
 Houston, TX 77060

August 19, 2014

Date Received : August 13, 2014  
 Description : Legend Buckshot 3H  
 Sample ID : CS-2 1FT  
 Collected By : Matthew Green  
 Collection Date : 08/12/14 11:03

ESC Sample # : L715666-02  
 Site ID :  
 Project # : LEGE-R141253

Parameter	Result	MDL	SDL	MQL	Units	Qual	Method	Date	Dil.
Chloride	6700	0.80	9.1	110	mg/kg	V	9056	08/15/14	10
Total Solids	87.8	0.0333	0.033		%		2540 G-2	08/16/14	1
Benzene	U	0.00012	0.00068	0.0028	mg/kg		8021	08/17/14	5
Toluene	U	0.00015	0.00085	0.028	mg/kg		8021	08/17/14	5
Ethylbenzene	U	0.00011	0.00063	0.0028	mg/kg		8021	08/17/14	5
Total Xylene	U	0.00046	0.0026	0.0085	mg/kg		8021	08/17/14	5
TPH (GC/FID) Low Fraction	U	0.050	0.28	0.57	mg/kg		8015	08/17/14	5
Surrogate Recovery-%									
a,a,a-Trifluorotoluene(FID)	96.9				% Rec.		8015	08/17/14	5
a,a,a-Trifluorotoluene(PID)	101.				% Rec.		8021	08/17/14	5
Diesel and Oil Ranges									
C10-C28 Diesel Range	4.2	2.0	2.3	4.6	mg/kg	J	8015	08/19/14	1
C28-C40 Oil Range	U	2.0	2.3	4.6	mg/kg		8015	08/19/14	1
Surrogate Recovery									
o-Terphenyl	85.1				% Rec.		8015	08/19/14	1

Results listed are dry weight basis.  
 U = ND (Not Detected) = Less than SDL

Note:  
 This report shall not be reproduced, except in full, without the written approval from ESC.  
 The reported analytical results relate only to the sample submitted

Reported: 08/19/14 15:19 Printed: 08/19/14 15:20

Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L715666-01	WG737759	SAMP	Toluene	R2977592	J
L715666-02	WG737688	SAMP	C10-C28 Diesel Range	R2977795	J
	WG737301	SAMP	Chloride	R2976644	V

Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
V	(ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed  
08/19/14 at 15:20:00

TSR Signing Reports: 134  
R5 - Desired TAT

Do not log for QCTX

Sample: L715666-01 Account: CEGHTX Received: 08/13/14 09:00 Due Date: 08/20/14 00:00 RPT Date: 08/19/14 15:19

Sample: L715666-02 Account: CEGHTX Received: 08/13/14 09:00 Due Date: 08/20/14 00:00 RPT Date: 08/19/14 15:19





12065 Lebanon Rd.  
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Matthew Green  
NTCEG - Spring, TX  
911 Regional Park Dr  
Houston, TX 77060

## Report Summary

Tuesday September 09, 2014

Report Number: L719816

Samples Received: 09/04/14

Client Project: LEGE-R141253

Description: Legend Buckshot 3H

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Mark W. Beasley , ESC Representative

### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,  
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,  
NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002,  
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,  
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,  
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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REPORT OF ANALYSIS

Matthew Green  
NTCEG - Spring, TX  
911 Regional Park Dr  
Houston, TX 77060

September 09, 2014

Date Received : September 04, 2014  
Description : Legend Buckshot 3H  
Sample ID : CS-1 2.5FT  
Collected By : Matthew Green  
Collection Date : 09/02/14 12:45

ESC Sample # : L719816-01  
Site ID :  
Project # : LEGE-R141253

Parameter	Result	MDL	SDL	MQL	Units	Qual	Method	Date	Dil.
Chloride	880	0.80	0.86	11.	mg/kg	9056		09/08/14	1
Total Solids	93.4	0.0333	0.033		%	2540	G-2	09/06/14	1

Results listed are dry weight basis.  
U = ND (Not Detected) = Less than SDL

Note:  
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The reported analytical results relate only to the sample submitted

Reported: 09/09/14 10:23 Printed: 09/09/14 10:23



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REPORT OF ANALYSIS

Matthew Green  
NTCEG - Spring, TX  
911 Regional Park Dr  
Houston, TX 77060

September 09, 2014

Date Received : September 04, 2014  
Description : Legend Buckshot 3H  
Sample ID : CS-2 2.5FT  
Collected By : Matthew Green  
Collection Date : 09/02/14 13:45

ESC Sample # : L719816-02

Site ID :

Project # : LEGE-R141253

Parameter	Result	MDL	SDL	MQL	Units	Qual	Method	Date	Dil.
Chloride	900	0.80	0.87	11.	mg/kg	9056		09/08/14	1
Total Solids	92.3	0.0333	0.033		%	2540	G-2	09/06/14	1

Results listed are dry weight basis.  
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Reported: 09/09/14 10:23 Printed: 09/09/14 10:23



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REPORT OF ANALYSIS

Matthew Green  
NTCEG - Spring, TX  
911 Regional Park Dr  
Houston, TX 77060

September 09, 2014

Date Received : September 04, 2014  
Description : Legend Buckshot 3H  
Sample ID : BACKGROUND 6IN  
Collected By : Matthew Green  
Collection Date : 09/02/14 14:10

ESC Sample # : L719816-03  
Site ID :  
Project # : LEGE-R141253

Parameter	Result	MDL	SDL	MQL	Units	Qual	Method	Date	Dil.
Chloride	130	0.80	0.84	10.	mg/kg	9056		09/08/14	1
Total Solids	95.0	0.0333	0.033		%	2540	G-2	09/06/14	1

Results listed are dry weight basis.  
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Reported: 09/09/14 10:23 Printed: 09/09/14 10:23

Summary of Remarks For Samples Printed  
09/09/14 at 10:23:29

TSR Signing Reports: 134  
R5 - Desired TAT

Do not log for QCTX

Sample: L719816-01 Account: CEGHTX Received: 09/04/14 14:00 Due Date: 09/11/14 00:00 RPT Date: 09/09/14 10:23

Sample: L719816-02 Account: CEGHTX Received: 09/04/14 14:00 Due Date: 09/11/14 00:00 RPT Date: 09/09/14 10:23

Sample: L719816-03 Account: CEGHTX Received: 09/04/14 14:00 Due Date: 09/11/14 00:00 RPT Date: 09/09/14 10:23





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Matthew Green  
NTGE  
911 Regional Park Dr  
Houston, TX 77060

### Report Summary

Thursday December 11, 2014

Report Number: L737370

Samples Received: 12/05/14

Client Project: LEGE-141253

Description: Legend Buckshot 3H

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Mark W. Beasley , ESC Representative

#### Laboratory Certification Numbers

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REPORT OF ANALYSIS

Matthew Green  
 NTGE  
 911 Regional Park Dr  
 Houston, TX 77060

December 11, 2014

Date Received : December 05, 2014  
 Description : Legend Buckshot 3H  
 Sample ID : CS-2 2 FT  
 Collected By : Matt Green  
 Collection Date : 12/01/14 12:30

ESC Sample # : L737370-01

Site ID :

Project # : LEGE-141253

Parameter	Result	MDL	SDL	MQL	Units	Qual	Method	Date	Dil.
Chloride	2800	0.80	8.8	110	mg/kg	9056		12/10/14	10
Total Solids	91.2	0.0333	0.033		%	2540	G-2	12/09/14	1

Results listed are dry weight basis.  
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Reported: 12/11/14 10:53 Printed: 12/11/14 10:54



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REPORT OF ANALYSIS

Matthew Green  
NTGE  
911 Regional Park Dr  
Houston, TX 77060

December 11, 2014

Date Received : December 05, 2014  
Description : Legend Buckshot 3H  
Sample ID : CS-1 2 FT  
Collected By : Matt Green  
Collection Date : 12/01/14 13:20

ESC Sample # : L737370-02

Site ID :

Project # : LEGE-141253

Parameter	Result	MDL	SDL	MQL	Units	Qual	Method	Date	Dil.
Chloride	11000	0.80	18.	230	mg/kg	V	9056	12/10/14	20
Total Solids	87.8	0.0333	0.033		%		2540 G-2	12/09/14	1

Results listed are dry weight basis.  
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Reported: 12/11/14 10:53 Printed: 12/11/14 10:54

Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L737370-02	WG758952	SAMP	Chloride	R3009324	V

Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
V	(ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed  
12/11/14 at 10:54:11

TSR Signing Reports: 134  
R5 - Desired TAT

Do not log for QCTX

Sample: L737370-01 Account: CEGHTX Received: 12/05/14 09:00 Due Date: 12/12/14 00:00 RPT Date: 12/11/14 10:53  
12-0017- hold samples  
Sample: L737370-02 Account: CEGHTX Received: 12/05/14 09:00 Due Date: 12/12/14 00:00 RPT Date: 12/11/14 10:53





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Matthew Green  
NTGE  
911 Regional Park Dr  
Houston, TX 77060

## Report Summary

Wednesday December 17, 2014

Report Number: L738957

Samples Received: 12/05/14

Client Project: LEGE-141253

Description: Legend Buckshot 3H

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Mark W. Beasley , ESC Representative

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REPORT OF ANALYSIS

Matthew Green  
NTGE  
911 Regional Park Dr  
Houston, TX 77060

December 17, 2014

Date Received : December 05, 2014  
Description : Legend Buckshot 3H  
Sample ID : CS-2 2.5FT  
Collected By : Matt Green  
Collection Date : 12/01/14 12:40

ESC Sample # : L738957-01

Site ID :

Project # : LEGE-141253

Parameter	Result	MDL	SDL	MQL	Units	Qual	Method	Date	Dil.
Chloride	430	0.80	0.90	11.	mg/kg	9056		12/16/14	1
Total Solids	88.5	0.0333	0.033		%	2540	G-2	12/16/14	1

Results listed are dry weight basis.  
U = ND (Not Detected) = Less than SDL

Note:  
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Reported: 12/17/14 16:50 Printed: 12/17/14 16:50



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REPORT OF ANALYSIS

Matthew Green  
 NTGE  
 911 Regional Park Dr  
 Houston, TX 77060

December 17, 2014

Date Received : December 05, 2014  
 Description : Legend Buckshot 3H  
 Sample ID : CS-2 3FT  
 Collected By : Matt Green  
 Collection Date : 12/01/14 12:45

ESC Sample # : L738957-02

Site ID :

Project # : LEGE-141253

Parameter	Result	MDL	SDL	MQL	Units	Qual	Method	Date	Dil.
Chloride	400	0.80	0.93	12.	mg/kg		9056	12/16/14	1
Total Solids	85.8	0.0333	0.033		%		2540 G-2	12/16/14	1

Results listed are dry weight basis.  
 U = ND (Not Detected) = Less than SDL

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Reported: 12/17/14 16:50 Printed: 12/17/14 16:50



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REPORT OF ANALYSIS

Matthew Green  
NTGE  
911 Regional Park Dr  
Houston, TX 77060

December 17, 2014

Date Received : December 05, 2014  
Description : Legend Buckshot 3H  
Sample ID : CS-1 2.5FT  
Collected By : Matt Green  
Collection Date : 12/01/14 13:30

ESC Sample # : L738957-03

Site ID :

Project # : LEGE-141253

Parameter	Result	MDL	SDL	MQI	Units	Qual	Method	Date	Dil.
Chloride	570	0.80	0.88	11.	mg/kg	9056		12/16/14	1
Total Solids	90.9	0.0333	0.033		%	2540	G-2	12/16/14	1

Results listed are dry weight basis.  
U = ND (Not Detected) = Less than SDL

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Reported: 12/17/14 16:50 Printed: 12/17/14 16:50



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REPORT OF ANALYSIS

Matthew Green  
NTGE  
911 Regional Park Dr  
Houston, TX 77060

December 17, 2014

Date Received : December 05, 2014  
Description : Legend Buckshot 3H  
Sample ID : CS-1 3FT  
Collected By : Matt Green  
Collection Date : 12/01/14 13:40

ESC Sample # : L738957-04  
Site ID :  
Project # : LEGE-141253

Parameter	Result	MDL	SDL	MQL	Units	Qual	Method	Date	Dil.
Chloride	1600	0.80	8.9	110	mg/kg	9056		12/16/14	10
Total Solids	89.9	0.0333	0.033		%	2540	G-2	12/16/14	1

Results listed are dry weight basis.  
U = ND (Not Detected) = Less than SDL  
Note:

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Reported: 12/17/14 16:50 Printed: 12/17/14 16:50

Summary of Remarks For Samples Printed  
12/17/14 at 16:50:56

TSR Signing Reports: 134  
RX - Priority Rush

Do not log for QCTX

Sample: L738957-01 Account: CEGHTX Received: 12/05/14 09:00 Due Date: 12/17/14 00:00 RPT Date: 12/17/14 16:50  
12-0017- hold samples. AV 12/15  
Sample: L738957-02 Account: CEGHTX Received: 12/05/14 09:00 Due Date: 12/17/14 00:00 RPT Date: 12/17/14 16:50  
12-0017- hold samples. AV 12/15  
Sample: L738957-03 Account: CEGHTX Received: 12/05/14 09:00 Due Date: 12/17/14 00:00 RPT Date: 12/17/14 16:50  
12-0017- hold samples. AV 12/15  
Sample: L738957-04 Account: CEGHTX Received: 12/05/14 09:00 Due Date: 12/17/14 00:00 RPT Date: 12/17/14 16:50  
12-0017- hold samples. AV 12/15

Company Name/Address:  
NTG Environmental  
200 N. Lorraine, Suite 200  
Midland, TX 79701

Billing Information:  
NTG Environmental  
Accounts Payable  
911 Regional Park Dr.  
Houston, TX 77060

Analysis/Container/Preservative



12065 Lebanon Road  
Mt. Juliet, TN 37122  
Phone: (800) 767-5859  
Phone: (615) 758-5858  
Fax: (615) 758-5859

Report to: Matthew Green

Email to: mgreen@ntgbl.com

Project Description: Leger Buckshot 3H

City/State Collected: Eddy County, ~~TX~~ NM

Phone: 432-230-3763  
FAX:

Client Project #: LEGE-141253

ESC Key:

Collected by (print): Matthew Green

Site/Facility ID#:

P.O.#:

Collected by (signature): Matthew Green

**Rush?** (Lab MUST Be Notified)  
 Same Day ..... 200%  
 Next Day ..... 100%  
 Two Day ..... 50%  
 Three Day ..... 25%

Date Results Needed:  
 Email?  No  Yes  
 FAX?  No  Yes

Immediately Packed on Ice N  Y

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Analysis/Container/Preservative	Remarks/Contaminant	Sample # (lab only)
CS-2 @ 2'	Grab	SS	2'	12-1-14	1230	1	X		1738957-01
CS-2 @ 2.5'	Grab	SS	2.5'	12-1-14	1240	1	X	Hold	-01
CS-2 @ 3'	Grab	SS	3'	12-1-14	1245	1	X	Hold	-02
CS-1 @ 2'	Grab	SS	2'	12-1-14	1320	1	X		-03
CS-1 @ 2.5'	Grab	SS	2.5'	12-1-14	1330	1	X	Hold	-04
CS-1 @ 3'	Grab	SS	3'	12-1-14	1340	1	X	Hold	

Cetane Chlorides E 9056

B180  
L738957

CoCode (lab use only)

Template/Prelogin

Shipped Via:

Remarks/Contaminant

Sample # (lab only)

12-0017

\*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other 5435 5515 7101 pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_

Remarks: Hold 2.5' samples & 3' samples, run if 2' samples are over 500 ppm

Relinquished by: (Signature) <u>Matthew Green</u>	Date: <u>12-4-14</u>	Time: <u>1230</u>	Received by: (Signature)	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition: <u>5</u> (lab use only)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: <u>3.8"</u> Bottles Received: <u>6</u>	CoC Seals Intact <u>Y</u> <u>N</u> <u>NA</u>
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <u>[Signature]</u>	Date: <u>12/5/14</u> Time: <u>0900</u>	pH Checked _____ NCF: _____

**Andy Vann**

---

**From:** Mark Beasley  
**Sent:** Monday, December 15, 2014 10:58 AM  
**To:** Login; Due WetLab  
**Cc:** Andrew Holt; Ken Buckley  
**Subject:** L737370 \*CEGHTX\* rush hold samples

**Importance:** High

Log all samples listed as hold on the COC for CHLORIDE & TS. Log as RX due 12/17.

Andrew/Kenny – Let me know if TAT is an issue.

Thanks  
Mark Beasley  
ESC Lab Sciences  
Direct Phone: (615) 773-9672  
Toll-free: 1-800-767-5859 ext 9672  
Email: [mbeasley@esclabsciences.com](mailto:mbeasley@esclabsciences.com)

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Matthew Green  
NTGE  
911 Regional Park Dr  
Houston, TX 77060

### Report Summary

Thursday January 29, 2015

Report Number: L745278

Samples Received: 01/24/15

Client Project: LEGE-R141253

Description: Legend Buckshot 3H

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Mark W. Beasley , ESC Representative

#### Laboratory Certification Numbers

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SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,  
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,  
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Est. 1970

REPORT OF ANALYSIS

Matthew Green  
 NTGE  
 911 Regional Park Dr  
 Houston, TX 77060

January 29, 2015

Date Received : January 24, 2015  
 Description : Legend Buckshot 3H  
 Sample ID : CS-1 3.5FT  
 Collected By : Matt Green  
 Collection Date : 01/22/15 12:30

ESC Sample # : L745278-01  
 Site ID :  
 Project # : LEGE-R141253

Parameter	Result	MDL	SDL	MQI	Units	Qual	Method	Date	Dil.
Chloride	79.	0.80	0.85	11.	mg/kg	9056		01/28/15	1
Total Solids	93.7	0.0333	0.033		%	2540	G-2	01/28/15	1

Results listed are dry weight basis.  
 U = ND (Not Detected) = Less than SDL  
 Note:

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