



## REMEDIATION SUMMARY AND SOIL CLOSURE REQUEST

**COG Operating, LLC**  
**Gunslinger 11 Fed Com #001**  
**Lea County, New Mexico**  
**Unit Letter "M", Section 11, Township 20 South, Range 33 East**  
**Latitude 32.582877° North, Longitude 103.640467° West**  
**NMOCD Reference No. 1RP-4651**

**APPROVED**

*By Olivia Yu at 8:28 am, Sep 13, 2018*

Prepared For:

**COG Operating, LLC**  
600 W Illinois Avenue  
Midland, Texas 79701

NMOCD approves of  
1RP-4651 for closure.

Prepared By:

**TRC Environmental Corporation**  
10 Desta Drive, Suite 150E  
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**March 2018**

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## INTRODUCTION & BACKGROUND INFORMATION

TRC Environmental Corporation (TRC), on behalf of COG Operating, LLC (COG), has prepared this *Remediation Summary and Soil Closure Request* for the Site known as Gunslinger 11 Federal Com #001. The legal description of the Site is Unit Letter “M”, Section 11, Township 20 South, Range 33 East, in Lea County, New Mexico. The subject property is administered by the United States Bureau of Land Management (BLM). The GPS coordinates for the site are N 32.582877° W 103.640467°. Please reference Figure 1 for the Site Location Map and Figure 2 for the Site and Sample Location Map.

On March 18, 2017, COG discovered a crude oil and produced water release, which occurred when a heater treater relief valve failed. The release was confined to the caliche pad of the location with overspray in the adjacent pasture and measured approximately 26,248 square feet in area. On March 22, 2017, a Release Notification and Corrective Action (Form C-141) was submitted to the NMOCD. During initial response activities, COG replaced the damaged pressure relief valve on the heater treater. Approximately forty (40) barrels of fluid was released from the heater treater, with thirty (30) barrels of fluid recovered. A copy of the Form C-141 is provided in Appendix C.

A groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) did not identify any registered water wells in Section 11, Township 20 South, Range 33 East. A reference map utilized by the NMOCD Hobbs District Office indicates groundwater should be encountered at approximately two hundred twenty-five (225) feet (ft.) below ground surface (bgs). Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion.

No water wells were observed within one-thousand (1,000) feet of the Release Site. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion.

No surface water was observed within one-thousand (1,000) feet of the release. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion. Based on the NMOCD Site Classification criteria, the Release Site soil remediation levels are 10 milligrams per kilogram (mg/kg) for benzene, 50 mg/kg for benzene, toluene, ethylbenzene and xylenes (BTEX), and five thousand (5,000) mg/kg for total petroleum hydrocarbons (TPH). Per NMOCD request, chloride remediation levels for the Release Site will be six hundred (600) mg/kg.

On June 30, 2017, TRC conducted an initial release assessment at the site. During the initial release assessment, a series of delineation trenches (Trench-1 through Trench-4) were advanced in an effort to determine the vertical extent of soil impacts. During the advancement of the delineation trenches, twenty-one (21) soil samples (Trench-1 1’, Trench-1 3’, Trench-1 5’, Trench-1 8’, Trench-2 6”, Trench-2 1’, Trench-2 3’, Trench-2 5’, Trench-2 8’, Trench-3 6”, Trench-3 1’, Trench-3 3’, Trench-3 5’, Trench-3 8’, Trench-4 6”, Trench-4 1’, Trench-4 3’, Trench-4 5’, Trench-4 8’, Trench-4 11’, and Trench-4 17’) were collected and submitted to Xenco Laboratories in Midland, Texas for determination of concentrations of BTEX using Method SW 846-8021B, TPH using Method SW 846-8015M, and/or chloride using Method E 300.0/300.1.

Laboratory analytical results indicated BTEX concentrations ranged from less than the applicable laboratory Reporting Limit (RL) for soil samples Trench-1 3', Trench-1 5', Trench-1 8', Trench-2 6", Trench-2 1', Trench-2 3', Trench-2 5', Trench-2 8', Trench-3 5', Trench-4 11', and Trench-4 17' to 123.8 mg/kg for soil sample Trench-4 5'. A review of laboratory analytical results indicated BTEX concentrations were below the NMOCD Recommended Remediation Action Levels (RRAL) in each of the submitted soil samples with the exception of soil samples Trench-4 1' and Trench-4 5' which exhibited concentrations of 59.284 mg/kg and 123.8 mg/kg, respectively. Analytical results indicated benzene concentrations were less than the applicable laboratory RL in each of the submitted soil samples, with the exception of soil samples Trench-4 6" and Trench-4 1' which exhibited concentrations of 0.0590 mg/kg and 0.174 mg/kg, respectively. A review of laboratory analytical results indicated benzene concentrations were below the NMOCD RRAL in each of the submitted soil samples. Analytical results indicated TPH concentrations ranged from less than the applicable laboratory RL for soil samples Trench-2 1', Trench-2 3', Trench-2 8', Trench-3 5', and Trench-4 17' to 11,531 mg/kg for soil sample Trench-4 6". A review of laboratory analytical results indicated TPH concentrations were below the NMOCD RRAL for the submitted soil samples, with the exception of soil samples Trench-3 6" (10,479 mg/kg), Trench-4 6" (11,531 mg/kg), Trench-4 1' (8,548 mg/kg), and Trench-4 5' (7,405 mg/kg). Analytical results indicated chloride concentrations ranged from 7.33 mg/kg for soil sample Trench-4 17' to 589 mg/kg for soil sample Trench-3 6". A review of laboratory analytical results indicated chloride concentrations were below the NMOCD RRAL for all of the submitted soil samples.

In addition, TRC collected five (5) delineation soil samples (North Trench-1 1', East Trench-1 1', South Trench-1 1', West Trench-1 1', and West Trench-1 3') to the north, east, south, and west of the release margins to a depth ranging from approximately one (1) ft. to three (3) feet ft. bgs in an effort to determine the horizontal extent of soil impact. The collected soil samples were and submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated benzene concentrations were less than the applicable laboratory RL for the submitted soil samples, with the exception of soil sample West Trench-1 3' (0.660 mg/kg). A review of laboratory analytical results indicated benzene concentrations were below the NMOCD RRAL in all of the submitted soil samples. Laboratory analytical results indicated BTEX concentrations were less than the applicable laboratory RL for the submitted soil samples, with the exception of soil samples West Trench-1 1' (4.761 mg/kg) and West Trench-1 3' (156.060 mg/kg). A review of laboratory analytical results indicated BTEX concentrations were below the NMOCD RRAL for the submitted soil samples with the exception of soil sample West Trench-1 3'. A review of laboratory analytical results indicated TPH concentrations ranged from less than the applicable laboratory RL for soil sample North Trench-1 1' to 13,231 mg/kg for soil sample West Trench-1 3'. A review of laboratory analytical results indicated TPH concentrations were below the NMOCD RRAL for the submitted soil samples with the exception of soil samples West Trench-1 1' (6,744 mg/kg) and West Trench-1 3' (13,231 mg/kg). Laboratory analytical results indicated chloride concentrations ranged from 38.0 mg/kg for soil sample South Trench-1 1' to 298 mg/kg for soil sample East Trench-1 1'. A review of laboratory analytical results indicated chloride concentrations were below the NMOCD RRAL in all of the submitted soil samples.

In addition, two (2) soil samples (OS-1 3" and OS-2 3") were collected from the overspray area located in the pasture adjacent to the caliche pad and submitted to the laboratory for BTEX, TPH, and chloride analysis. Laboratory analytical results indicated benzene, BTEX, and TPH concentrations were less than the applicable laboratory RL's in each of the submitted soil samples. Analytical results indicated chloride concentrations for soil samples OS-1 3" and OS-2 3" were

13.8 mg/kg and 82.6 mg/kg, respectively. A review of laboratory analytical results indicated concentrations for all constituents were below the NMOCD RRAL in each of the submitted soil samples. Laboratory analytical results are summarized in Table 1 - Concentrations of Benzene, BTEX, TPH and Chloride in Soil. Laboratory analytical reports are provided in Appendix A.

On September 7, 2017, COG submitted a *Workplan* to the NMOCD and BLM proposing remediation activities designed to advance the site toward an approved closure. The Work Plan proposed excavating the release site to a depth of approximately six (6) inches bgs in the area represented by soil samples Trench-1, excavate to a depth of approximately one (1) foot bgs in the area represented by soil samples Trench-3, and excavate approximately five (5) feet bgs in the area represented by soil samples Trench-4. No excavation activities will be performed in the areas represented by soil sample Trench-2, which will be aesthetically addressed; the *Workplan* was subsequently approved.

## **SUMMARY OF SOIL REMEDIATION ACTIVITIES**

On October 27, 2017, remediation activities commenced at the Release Site. Impacted soil within the release margins was excavated, and stockpiled on-site, atop an impermeable liner. The floor and sidewalls of the excavated area were advanced until field tests suggested chloride concentrations were below the NMOCD RRAL and hydrocarbon impacts had been mitigated.

On November 6, 2017, upon excavating impacted soil in the areas represented by test trenches Trench-1, Trench-3 and Trench-4, TRC collected seventeen (17) excavation confirmation soil samples (BH-1 6", NW-1 3", EW-1 3", SW-1 3", WW-1 3", BH-2 Surface, South-1 Surface, North-1 Surface, BH-3 1', NW-2 6", EW-2 6", SW-2 6", BH-4 6', NW-3 3', EW-3 3', SW-3 3' and WW-2 3') from the floors and sidewalls of the excavated areas and submitted them to the laboratory for analysis of BTEX, TPH, and chloride concentrations. Laboratory analytical results indicated benzene, BTEX and TPH concentrations were below the NMOCD RRAL for the submitted soil samples, with the exception of soil sample NW-2 6" (7,660 mg/kg). Analytical results indicated chloride concentrations were below the NMOCD RRAL for the submitted soil samples, with the exceptions of NW-1 3" (1,081 mg/kg), EW-1 3" (1,340 mg/kg), WW-1 3" (710 mg/kg) and EW-3 3' (1,160 mg/kg).

On November 10, 2017, TRC collected thirteen (13) stockpile characterization soil samples (SP-1 through SP-13), characterizing every fifty (50) cubic yards (yd<sup>3</sup>) of stockpiled soil and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated benzene, BTEX, TPH and chloride concentrations were below the NMOCD RRAL in all of the submitted soil samples. The excavation was advanced in the area characterized by samples points NW-2 6", NW-1 3", EW-1 3", WW-1 3" and EW-3 3'. Excavated soil was placed into approximate fifty (50) yd<sup>3</sup> stockpiles (SP-14 and SP-15).

On December 15, 2017, upon excavating the impacted areas represented by sample points NW-2 6", NW-1 3", EW-1 3", WW-1 3" and EW-3 3', TRC collected five (5) excavation confirmation soil samples (NW-1A @ 3", NW-2A @ 6", EW-1A @ 3", WW-1A @ 3" and EW-3A @ 3') from the sidewalls of the excavated area and submitted them to laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated benzene, BTEX, TPH and chloride concentrations were below the NMOCD RRAL for the submitted soil samples with the exception of soil sample WW-1A 3", which exhibited a TPH concentration of 5,499 mg/kg.

In addition, two (2) stockpile characterization samples (SP-14 and SP-15), characterizing every fifty (50) cubic yards (yd<sup>3</sup>) of stockpiled soil were collected and submitted to the laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD RRAL in each of the submitted soil samples.

On January 9, 2018, impacted soil in the area characterized by soil sample WW-1A 3" was excavated and mixed with soil stockpile SP-14. Upon excavating the affected area represented by soil sample WW-1A @ 3", TRC collected one (1) excavation confirmation soil sample (WW-1b @ 3") and one (1) stockpile characterization sample (SP-14b) submitted to the laboratory for analysis of TPH. Laboratory analytical results indicated TPH concentrations, which were below the NMOCD RRAL.

On January 18, 2018, upon receiving laboratory analytical results from confirmation soil samples, the excavated areas were backfilled with stockpiled soil represent by soil samples SP-1 though SP13, SP-14b and SP-15. Excavation backfill was compacted and graded to meet the needs of the well pad.

Prior to backfilling, the final dimensions of the excavated area characterized by test trench Trench-1 were fifty (50) ft. in length, forty (40) ft. in width and six (6) in. in depth. The final dimensions of the excavated area characterized by test trench Trench-3 were sixty (60) ft. in length, forty (40) to fifty (50) ft. in width and one (1) ft. in depth. The final dimensions of the excavated area characterized by test trench Trench-4 were sixty (60) ft. in length, thirty-five (35) ft. in width and six (6) ft. in depth

## **SITE CLOSURE REQUEST**

Remediation activities were conducted in accordance with the NMOCD and BLM-approved *Workplan*. Laboratory analytical results from confirmation soil samples collected from the floor and sidewalls of the excavated areas indicated benzene, BTEX, TPH and/or chloride concentrations were below the NMOCD RRAL in each of the submitted soil samples. Upon receiving laboratory analytical results from excavation confirmation soil samples, the excavated area was backfilled with stockpiled soil exhibiting benzene, BTEX, TPH and chloride concentrations below the NMOCD RRAL. Based on laboratory analytical results and field activities conducted to date, TRC recommends COG provide copies of this Remediation Summary and Soil Closure Request to the BLM request closure status to the Gunslinger 11 Fed Com #001.

## **LIMITATIONS**

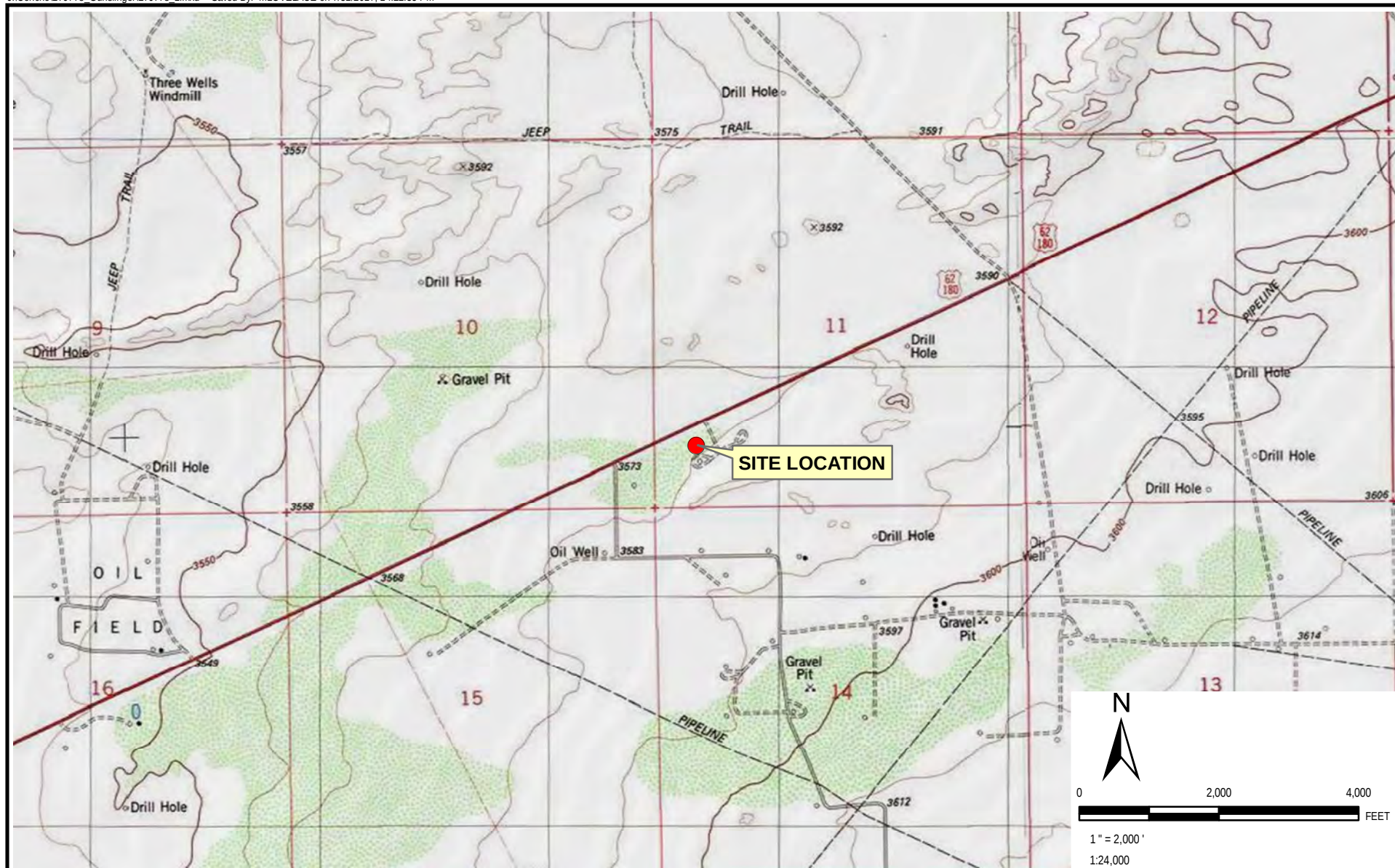
TRC has prepared this Remediation Summary and Soil Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended.

TRC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. TRC has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. TRC has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. TRC also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of COG Operating, LLC. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of TRC and/or COG Operating, LLC.

## **DISTRIBUTION**

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TRC - GIS

TITLE:

### FIGURE 1 SITE LOCATION MAP

PROJECT:

**GUNSLINGER 11 FEDERAL #001  
LEA COUNTY, NEW MEXICO  
COG OPERATING, LLC**

DRAWN BY: MLOVELACE

CHECKED BY: NGREEN

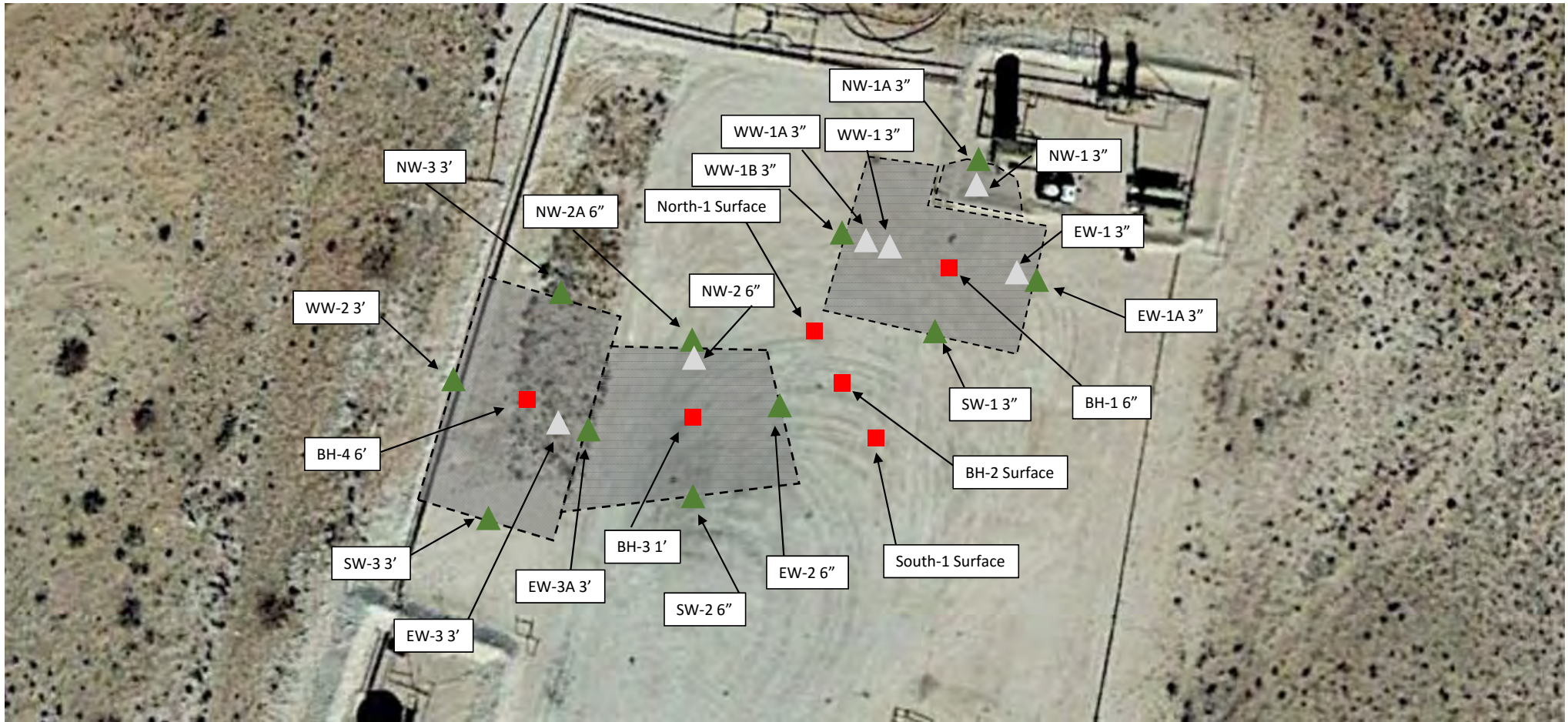
APPROVED BY: NGREEN

DATE: JULY 2017

PROJ. NO.: 279778

GPS LAT. N 32.582877°, LONG. W 103.640467°

**SW1/4 SW1/4 SEC 11 T20S R33E**



**LEGEND:**

- Confirmation Floor Sample Location     ▲ Excavated Sample Location
- ▲ Confirmation Sidewall Sample Location
- Excavated Area

Figure 2  
Site & Sample Location Map  
COG Operating, LLC  
Lusk Deep Unit A #029H  
Lea County, New Mexico

Scale 1" = ~50'

Drafted by: ZC     Checked by: JL

Draft: January 12, 2018

Lat. N 32.6667595 Long. W 103.7948532

UL "D", Sec. 17, T19S, R32E

TRC Proj. No.: 293103



2057 Commerce Drive  
Midland, Texas 79703  
432.520.7720

TABLE 1

## CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

COG OPERATING, LLC  
GUNSLINGER 11 FEDERAL COM #001 (IRP-4651)  
LEA COUNTY, NEW MEXICO

All concentrations are reported in mg/kg

| SAMPLE LOCATION                             | SAMPLE DATE | SOIL STATUS | METHODS: SW 846-8021b |          |               |                |            |            | METHOD: SW 8015M                           |                                             |                                             |                                              | E 300.1<br>CHLORIDE |
|---------------------------------------------|-------------|-------------|-----------------------|----------|---------------|----------------|------------|------------|--------------------------------------------|---------------------------------------------|---------------------------------------------|----------------------------------------------|---------------------|
|                                             |             |             | BENZENE               | TOLUENE  | ETHYL-BENZENE | m, p - XYLENES | o - XYLENE | TOTAL BTEX | TPH GRO<br>C <sub>6</sub> -C <sub>10</sub> | TPH DRO<br>C <sub>10</sub> -C <sub>28</sub> | TPH ORO<br>C <sub>28</sub> -C <sub>35</sub> | TOTAL TPH<br>C <sub>6</sub> -C <sub>35</sub> |                     |
| Trench-1 1'                                 | 06/30/17    | In Situ     | <0.00199              | 0.00585  | <0.00199      | 0.210          | 0.112      | 0.328      | 724                                        | 1,860                                       | 153                                         | 2,740                                        | 84.0                |
| Trench-1 3'                                 | 06/30/17    | In Situ     | <0.00198              | <0.00198 | <0.00198      | <0.00397       | <0.00198   | <0.00397   | <15.0                                      | 24.7                                        | <15.0                                       | 24.7                                         | -                   |
| Trench-1 5'                                 | 06/30/17    | In Situ     | <0.00200              | <0.00200 | <0.00200      | <0.00399       | <0.00200   | <0.00399   | 19.0                                       | 176                                         | <15.0                                       | 195                                          | -                   |
| Trench-1 8'                                 | 06/30/17    | In Situ     | <0.00202              | <0.00202 | <0.00202      | <0.00403       | <0.00202   | <0.00403   | <15.0                                      | 70.2                                        | <15.0                                       | 70.2                                         | 85.2                |
| Trench-2 6"                                 | 06/30/17    | In Situ     | <0.00201              | <0.00201 | <0.00201      | <0.00402       | <0.00201   | <0.00402   | 27.5                                       | 1,020                                       | 78.5                                        | 1,126.0                                      | 355                 |
| Trench-2 1'                                 | 06/30/17    | In Situ     | <0.00200              | <0.00200 | <0.00200      | <0.00399       | <0.00200   | <0.00399   | <15.0                                      | <15.0                                       | <15.0                                       | <15.0                                        | 326                 |
| Trench-2 3'                                 | 06/30/17    | In Situ     | <0.00199              | <0.00199 | <0.00199      | <0.00398       | <0.00199   | <0.00398   | <15.0                                      | <15.0                                       | <15.0                                       | <15.0                                        | -                   |
| Trench-2 5'                                 | 06/30/17    | In Situ     | <0.00202              | <0.00202 | <0.00202      | <0.00403       | <0.00202   | <0.00403   | <14.9                                      | 54.4                                        | <14.9                                       | 54.4                                         | -                   |
| Trench-2 8'                                 | 06/30/17    | In Situ     | <0.00199              | <0.00199 | <0.00199      | <0.00398       | <0.00199   | <0.00398   | <15.0                                      | <15.0                                       | <15.0                                       | <15.0                                        | 50.9                |
| Trench-3 6"                                 | 06/30/17    | Excavated   | <0.00199              | <0.00199 | <0.00199      | 0.0489         | 0.0318     | 0.0807     | 1,360                                      | 8,520                                       | 599                                         | 10,479                                       | 589                 |
| Trench-3 1'                                 | 06/30/17    | In-Situ     | <0.00201              | <0.00201 | <0.00201      | 0.00807        | 0.00545    | 0.0135     | 141                                        | 846                                         | <15.0                                       | 987                                          | 136                 |
| Trench-3 3'                                 | 06/30/17    | In-Situ     | <0.00202              | <0.00202 | <0.00202      | 0.00563        | <0.00202   | 0.00563    | 34.3                                       | 632                                         | <15.0                                       | 666.3                                        | -                   |
| Trench-3 5'                                 | 06/30/17    | In-Situ     | <0.00201              | <0.00201 | <0.00201      | <0.00402       | <0.00201   | <0.00402   | <15.0                                      | <15.0                                       | <15.0                                       | <15.0                                        | -                   |
| Trench-3 8'                                 | 06/30/17    | In-Situ     | <0.00201              | <0.00201 | <0.00201      | 0.00858        | <0.00201   | 0.00858    | 21.3                                       | 150                                         | <15.0                                       | 171                                          | 193                 |
| Trench-4 6"                                 | 06/30/17    | Excavated   | 0.0590                | 0.387    | 0.731         | 3.68           | 4.19       | 9.05       | 1,980                                      | 8,860                                       | 691                                         | 11,531                                       | 155                 |
| Trench-4 1'                                 | 06/30/17    | Excavated   | 0.174                 | 2.39     | 1.92          | 38.8           | 16.0       | 59.3       | 2,920                                      | 5,260                                       | 368                                         | 8,548                                        | 50.8                |
| Trench-4 3'                                 | 06/30/17    | Excavated   | <0.0202               | 0.599    | 0.542         | 7.10           | 3.18       | 11.4       | 415                                        | 1,160                                       | 45.8                                        | 1,620.8                                      | -                   |
| Trench-4 5'                                 | 06/30/17    | Excavated   | <0.0199               | 11.0     | 11.0          | 74.4           | 27.4       | 124        | 2,740                                      | 4,310                                       | 355                                         | 7,405                                        | -                   |
| Trench-4 8'                                 | 06/30/17    | In-Situ     | <0.00200              | 0.00305  | <0.00200      | 0.116          | 0.0859     | 0.205      | 317                                        | 1,200                                       | 89.1                                        | 1,606.1                                      | -                   |
| Trench-4 11'                                | 06/30/17    | In-Situ     | <0.00199              | <0.00199 | <0.00199      | <0.00398       | <0.00199   | <0.00398   | 16.4                                       | 130                                         | <15.0                                       | 146.4                                        | -                   |
| Trench-4 17'                                | 06/30/17    | In-Situ     | <0.00200              | <0.00200 | <0.00200      | <0.00399       | <0.00200   | <0.00399   | <15.0                                      | <15.0                                       | <15.0                                       | <15.0                                        | 7.33                |
| North Trench-1 1'                           | 06/30/17    | In-Situ     | <0.00201              | <0.00201 | <0.00201      | <0.00402       | <0.00201   | <0.00402   | <15.0                                      | <15.0                                       | <15.0                                       | <15.0                                        | 281                 |
| East Trench-1 1'                            | 06/30/17    | In-Situ     | <0.00200              | <0.00200 | <0.00200      | <0.00401       | <0.00200   | <0.00401   | <15.0                                      | 28.8                                        | <15.0                                       | 28.8                                         | 298                 |
| South Trench-1 1'                           | 06/30/17    | In-Situ     | <0.00198              | <0.00198 | <0.00198      | <0.00397       | <0.00198   | <0.00397   | <15.0                                      | 142                                         | 25.3                                        | 167.3                                        | 38.0                |
| West Trench-1 1'                            | 06/30/17    | Excavated   | <0.0202               | 0.278    | 0.373         | 2.08           | 2.03       | 4.76       | 1,380                                      | 4,940                                       | 424                                         | 6,744                                        | 74.9                |
| West Trench-1 3'                            | 06/30/17    | Excavated   | 0.660                 | 26.5     | 11.8          | 80.5           | 36.6       | 156        | 5,690                                      | 7,230                                       | 311                                         | 13,231                                       | 78.4                |
| OS-1 3"                                     | 06/30/17    | In-Situ     | <0.00202              | <0.00202 | <0.00202      | <0.00404       | <0.00202   | <0.00404   | <15.0                                      | <15.0                                       | <15.0                                       | <15.0                                        | 13.8                |
| OS-2 3"                                     | 06/30/17    | In-Situ     | <0.00200              | <0.00200 | <0.00200      | <0.00401       | <0.00200   | <0.00401   | <15.0                                      | <15.0                                       | <15.0                                       | <15.0                                        | 82.6                |
| BH-1 6"                                     | 11/06/17    | In-Situ     | <0.00201              | <0.00201 | <0.00201      | <0.00201       | <0.00201   | <0.00201   | <15.0                                      | 146                                         | <15.0                                       | 146                                          | 104                 |
| NW-1 3"                                     | 11/06/17    | Excavated   | <0.00199              | <0.00199 | <0.00199      | <0.00199       | <0.00199   | <0.00199   | <15.0                                      | 100                                         | 15.8                                        | 116                                          | 1,081               |
| EW-1 3"                                     | 11/06/17    | Excavated   | <0.00200              | 0.00201  | 0.00427       | 0.0667         | 0.07298    | 34.0       | 1,720                                      | 234                                         | 1,988                                       | 1,340                                        | -                   |
| SW-1 3"                                     | 11/06/17    | In-Situ     | <0.00201              | 0.00880  | <0.00201      | 0.3059         | 0.315      | 258        | 1,690                                      | 180                                         | 2,128                                       | 28.4                                         | -                   |
| WW-1 3"                                     | 11/06/17    | Excavated   | <0.00200              | <0.00200 | <0.00200      | 0.01716        | 0.01716    | 70         | 2,080                                      | 273                                         | 2,423                                       | 710                                          | -                   |
| BH-2 Surface                                | 11/06/17    | In-Situ     | <0.00199              | <0.00199 | <0.00199      | <0.00199       | <0.00199   | <0.00199   | <14.9                                      | <14.9                                       | <14.9                                       | <14.9                                        | 6.87                |
| South-1 Surface                             | 11/06/17    | In-Situ     | <0.00341              | <0.00341 | <0.00341      | <0.00341       | <0.00341   | <0.00341   | <15.0                                      | <15.0                                       | <15.0                                       | <15.0                                        | 10.6                |
| North-1 Surface                             | 11/06/17    | In-Situ     | <0.00346              | <0.00346 | <0.00346      | <0.00346       | <0.00346   | <0.00346   | <15.0                                      | <15.0                                       | <15.0                                       | <15.0                                        | 6.25                |
| BH-3 1'                                     | 11/06/17    | In-Situ     | <0.00202              | <0.00202 | <0.00202      | <0.00202       | <0.00202   | <0.00202   | <15.0                                      | 94.9                                        | 42.8                                        | 137.7                                        | 167                 |
| NW-2 6"                                     | 11/06/17    | Excavated   | <0.00199              | <0.00199 | <0.00199      | 0.0711         | 0.0711     | 231        | 6,780                                      | 649                                         | 7,660                                       | 542                                          | -                   |
| EW-2 6"                                     | 11/06/17    | In-Situ     | <0.00200              | <0.00200 | <0.00200      | <0.002         | <0.002     | <15.0      | 132                                        | 23.5                                        | 155.5                                       | 53.7                                         | -                   |
| SW-2 6"                                     | 11/06/17    | In-Situ     | <0.00201              | <0.00201 | <0.00201      | <0.00201       | <0.00201   | <0.00201   | <15.0                                      | 129                                         | 15.5                                        | 144.5                                        | 319                 |
| BH-4 6'                                     | 11/06/17    | In-Situ     | <0.00202              | <0.00202 | <0.00202      | <0.00202       | <0.00202   | <0.00202   | <15.0                                      | 641                                         | 75.0                                        | 716                                          | 274                 |
| NW-3 3'                                     | 11/06/17    | In-Situ     | <0.00200              | <0.00200 | <0.00200      | <0.002         | <0.002     | <15.0      | <15.0                                      | <15.0                                       | <15.0                                       | <15.0                                        | 6.25                |
| EW-3 3'                                     | 11/06/17    | Excavated   | <0.00339              | <0.00339 | <0.00339      | <0.00339       | <0.00339   | <0.00339   | <14.9                                      | 87.6                                        | <14.9                                       | 87.6                                         | 1,160               |
| SW-3 3'                                     | 11/06/17    | In-Situ     | <0.00201              | <0.00201 | <0.00201      | <0.00201       | <0.00201   | <0.00201   | <15.0                                      | <15.0                                       | <15.0                                       | <15.0                                        | 66.1                |
| WW-2 3'                                     | 11/06/17    | In-Situ     | <0.00200              | <0.00200 | <0.00200      | <0.002         | <0.002     | <0.002     | <15.0                                      | <15.0                                       | <15.0                                       | <15.0                                        | 10.9                |
| SP-1                                        | 11/10/17    | Backfill    | <0.00992              | 0.105    | 0.225         | 2.473          | 2.803      | 110        | 1,430                                      | 203                                         | 1,743                                       | 354                                          | -                   |
| SP-2                                        | 11/10/17    | Backfill    | <0.00201              | <0.00201 | <0.00201      | <0.00201       | <0.00201   | 19.3       | 1,380                                      | 207                                         | 1,606.3                                     | 327                                          | -                   |
| SP-3                                        | 11/10/17    | Backfill    | <0.00348              | <0.00348 | <0.00348      | <0.00348       | <0.00348   | 22.8       | 1,650                                      | 270                                         | 1,940                                       | 152                                          | -                   |
| SP-4                                        | 11/10/17    | Backfill    | <0.00200              | <0.00200 | <0.00200      | <0.00200       | <0.00200   | <0.00200   | <15.0                                      | 1,240                                       | 205                                         | 1,445                                        | 219                 |
| SP-5                                        | 11/10/17    | Backfill    | <0.00346              | <0.00346 | <0.00346      | <0.00346       | <0.00346   | <15.0      | 417                                        | 40.3                                        | 457.3                                       | 54.7                                         | -                   |
| SP-6                                        | 11/10/17    | Backfill    | <0.00200              | <0.00200 | <0.00200      | 0.00889        | 0.00889    | 23.5       | 1,660                                      | 283                                         | 1,966.5                                     | 71.9                                         | -                   |
| SP-7                                        | 11/10/17    | Backfill    | <0.00200              | <0.00200 | 0.0105        | 0.01349        | 0.02399    | 32.3       | 1,200                                      | 179                                         | 1,411.3                                     | 74.2                                         | -                   |
| SP-8                                        | 11/10/17    | Backfill    | <0.00201              | <0.00201 | <0.00201      | 0.01669        | 0.01669    | 17.4       | 769                                        | 103                                         | 889.4                                       | 52.0                                         | -                   |
| SP-9                                        | 11/10/17    | Backfill    | <0.00200              | <0.00200 | <0.00200      | 0.0264         | 0.02640    | <15.0      | 431                                        | 53.0                                        | 484                                         | 51.3                                         | -                   |
| SP-10                                       | 11/10/17    | Backfill    | <0.00344              | <0.00344 | <0.00344      | <0.00344       | <0.00344   | <15.0      | 353                                        | 71.3                                        | 424.3                                       | 95.0                                         | -                   |
| SP-11                                       | 11/10/17    | Backfill    | <0.00200              | <0.00200 | <0.00200      | 0.00752        | 0.00752    | <15.0      | 399                                        | 54.0                                        | 453                                         | 31.6                                         | -                   |
| SP-12                                       | 11/10/17    | Backfill    | <0.00332              | <0.00332 | <0.00332      | <0.00332       | <0.00332   | <15.0      | 470                                        | 63.9                                        | 533.9                                       | 31.3                                         | -                   |
| SP-13                                       | 11/10/17    | Backfill    | <0.00200              | <0.00200 | <0.00200      | <0.002         | <0.002     | <15.0      | 200                                        | 35.6                                        | 235.6                                       | 132                                          | -                   |
| NW-1A @ 3"                                  | 12/15/17    | In-Situ     | <0.00199              | <0.00199 | <0.00199      | <0.00199       | <0.00199   | <15.0      | 1,350                                      | 291                                         | 1,641                                       | 159                                          | -                   |
| EW-1A @ 3"                                  | 12/15/17    | In-Situ     | <0.00202              | <0.00202 | <0.00202      | <0.00202       | <0.00202   | <15.0      | 39.0                                       | <15.0                                       | 39.0                                        | 313                                          | -                   |
| WW-1A @ 3"                                  | 12/15/17    | Excavated   | <0.00200              | 0.02040  | 0.04690       | 0.352          | 0.4193     | 513        | 4,420                                      | 566                                         | 5,499                                       | 303                                          | -                   |
| NW-2A @ 6"                                  | 12/15/17    | In-Situ     | <0.00200              | <0.00200 | 0.00292       | 0.0405         | 0.04342    | 155        | 3,680                                      | 465                                         | 4,300                                       | 198                                          | -                   |
| EW-3A @ 3"                                  | 12/15/17    | In-Situ     | <0.00202              | <0.00202 | <0.00202      | <0.00202       | <0.00202   | <15.0      | <15.0                                      | <15.0                                       | <15.0                                       | 70.5                                         | -                   |
| SP-14                                       | 12/15/17    | In-Situ     | <0.00202              | 0.00327  | 0.00423       | 0.0458         | 0.0533     | 83.2       | 2,440                                      | 384                                         | 2,907.2                                     | 315                                          | -                   |
| SP-15                                       | 12/15/17    | In-Situ     | <0.00200              | <0.00200 | <0.00200      | 0.01386        | 0.01386    | 18.4       | 1,290                                      | 228                                         | 1,536.4                                     | 201                                          | -                   |
| WW-1b @ 3"                                  | 01/09/18    | In-Situ     | -                     | -        | -             | -              | -          | -          | 23.0                                       | 120                                         | <15.0                                       | 143.0                                        | -                   |
| SP-14b                                      | 01/09/18    | Backfill    | -                     | -        | -             | -              | -          | -          | 210.0                                      | 2,050                                       | 385                                         | 2,645                                        | -                   |
| NMOCD Recommended Remediation Action Levels |             |             | 10                    | -        | -             | -              | -          | 50         | -                                          | -                                           | -                                           | 5,000                                        | 600                 |



# Certificate of Analysis Summary 556808

TRC Solutions, Inc, Midland, TX

Project Name: Gunslinger 11 Federal Com #001H (03/18/17)



Project Id:

Contact: Nikki Green

Project Location: Lea Co NM

Date Received in Lab: Mon Jul-03-17 11:55 am

Report Date: 11-JUL-17

Project Manager: Kelsey Brooks

| Analysis Requested                | Lab Id:    | 556808-001       | 556808-002       | 556808-003       | 556808-004       | 556808-005       | 556808-006       |
|-----------------------------------|------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                   | Field Id:  | OS-1 3"          | OS-2 3"          | Trench-1 1'      | Trench-1 3'      | Trench-1 5'      | Trench-1 8'      |
|                                   | Depth:     |                  |                  |                  |                  |                  |                  |
|                                   | Matrix:    | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             |
|                                   | Sampled:   | Jun-30-17 08:50  | Jun-30-17 08:55  | Jun-30-17 09:00  | Jun-30-17 09:15  | Jun-30-17 09:30  | Jun-30-17 09:45  |
| BTEX by EPA 8021B                 | Extracted: | Jul-06-17 09:30  | Jul-06-17 09:30  | Jul-06-17 09:30  | Jul-06-17 09:30  | Jul-06-17 09:30  | Jul-06-17 09:30  |
|                                   | Analyzed:  | Jul-06-17 18:35  | Jul-06-17 18:51  | Jul-06-17 20:28  | Jul-06-17 19:08  | Jul-06-17 19:24  | Jul-06-17 19:40  |
|                                   | Units/RL:  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Benzene                           |            | <0.00202 0.00202 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00198 0.00198 | <0.00200 0.00200 | <0.00202 0.00202 |
| Toluene                           |            | <0.00202 0.00202 | <0.00200 0.00200 | 0.00585 0.00199  | <0.00198 0.00198 | <0.00200 0.00200 | <0.00202 0.00202 |
| Ethylbenzene                      |            | <0.00202 0.00202 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00198 0.00198 | <0.00200 0.00200 | <0.00202 0.00202 |
| m,p-Xylenes                       |            | <0.00404 0.00404 | <0.00401 0.00401 | 0.210 0.00398    | <0.00397 0.00397 | <0.00399 0.00399 | <0.00403 0.00403 |
| o-Xylene                          |            | <0.00202 0.00202 | <0.00200 0.00200 | 0.112 0.00199    | <0.00198 0.00198 | <0.00200 0.00200 | <0.00202 0.00202 |
| Total Xylenes                     |            | <0.00202 0.00202 | <0.00200 0.00200 | 0.322 0.00199    | <0.00198 0.00198 | <0.00200 0.00200 | <0.00202 0.00202 |
| Total BTEX                        |            | <0.00202 0.00202 | <0.00200 0.00200 | 0.328 0.00199    | <0.00198 0.00198 | <0.00200 0.00200 | <0.00202 0.00202 |
| Chloride by EPA 300               | Extracted: | Jul-07-17 16:30  | Jul-07-17 16:30  | Jul-07-17 16:30  |                  |                  | Jul-07-17 16:30  |
|                                   | Analyzed:  | Jul-07-17 19:54  | Jul-07-17 20:17  | Jul-07-17 20:24  |                  |                  | Jul-07-17 20:32  |
|                                   | Units/RL:  | mg/kg RL         | mg/kg RL         | mg/kg RL         |                  |                  | mg/kg RL         |
| Chloride                          |            | 13.8 4.91        | 82.6 4.97        | 84.0 4.95        |                  |                  | 85.2 4.94        |
| TPH by SW8015 Mod                 | Extracted: | Jul-04-17 10:00  | Jul-04-17 10:00  | Jul-04-17 10:00  | Jul-04-17 10:00  | Jul-04-17 10:00  | Jul-04-17 10:00  |
|                                   | Analyzed:  | Jul-04-17 12:36  | Jul-04-17 13:37  | Jul-04-17 13:57  | Jul-04-17 14:19  | Jul-04-17 14:39  | Jul-04-17 14:59  |
|                                   | Units/RL:  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Gasoline Range Hydrocarbons (GRO) |            | <15.0 15.0       | <15.0 15.0       | 724 15.0         | <15.0 15.0       | 19.0 15.0        | <15.0 15.0       |
| Diesel Range Organics (DRO)       |            | <15.0 15.0       | <15.0 15.0       | 1860 15.0        | 24.7 15.0        | 176 15.0         | 70.2 15.0        |
| Oil Range Hydrocarbons (ORO)      |            | <15.0 15.0       | <15.0 15.0       | 153 15.0         | <15.0 15.0       | <15.0 15.0       | <15.0 15.0       |
| Total TPH                         |            | <15.0 15.0       | <15.0 15.0       | 2740 15.0        | 24.7 15.0        | 195 15.0         | 70.2 15.0        |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Version: 1.9%

Mike Kimmel  
Client Services Manager



# Certificate of Analysis Summary 556808

TRC Solutions, Inc, Midland, TX

Project Name: Gunslinger 11 Federal Com #001H (03/18/17)



Project Id:

Contact: Nikki Green

Project Location: Lea Co NM

Date Received in Lab: Mon Jul-03-17 11:55 am

Report Date: 11-JUL-17

Project Manager: Kelsey Brooks

| Analysis Requested                | Lab Id:    | 556808-007       | 556808-008       | 556808-009       | 556808-010       | 556808-011       | 556808-012       |
|-----------------------------------|------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                   | Field Id:  | Trench-2 6"      | Trench-2 1'      | Trench-2 3'      | Trench-2 5'      | Trench-2 8'      | Trench-3 6"      |
|                                   | Depth:     |                  |                  |                  |                  |                  |                  |
|                                   | Matrix:    | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             |
|                                   | Sampled:   | Jun-30-17 10:00  | Jun-30-17 10:20  | Jun-30-17 10:30  | Jun-30-17 10:45  | Jun-30-17 11:00  | Jun-30-17 11:15  |
| BTEX by EPA 8021B                 | Extracted: | Jul-06-17 15:00  | Jul-06-17 15:00  | Jul-06-17 15:00  | Jul-06-17 15:00  | Jul-06-17 15:00  | Jul-07-17 08:30  |
|                                   | Analyzed:  | Jul-06-17 22:54  | Jul-06-17 23:10  | Jul-06-17 23:27  | Jul-06-17 23:43  | Jul-06-17 23:59  | Jul-07-17 15:22  |
|                                   | Units/RL:  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Benzene                           |            | <0.00201 0.00201 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00202 0.00202 | <0.00199 0.00199 | <0.00199 0.00199 |
| Toluene                           |            | <0.00201 0.00201 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00202 0.00202 | <0.00199 0.00199 | <0.00199 0.00199 |
| Ethylbenzene                      |            | <0.00201 0.00201 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00202 0.00202 | <0.00199 0.00199 | <0.00199 0.00199 |
| m,p-Xylenes                       |            | <0.00402 0.00402 | <0.00399 0.00399 | <0.00398 0.00398 | <0.00403 0.00403 | <0.00398 0.00398 | 0.0489 0.00398   |
| o-Xylene                          |            | <0.00201 0.00201 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00202 0.00202 | <0.00199 0.00199 | 0.0318 0.00199   |
| Total Xylenes                     |            | <0.00201 0.00201 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00202 0.00202 | <0.00199 0.00199 | 0.0807 0.00199   |
| Total BTEX                        |            | <0.00201 0.00201 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00202 0.00202 | <0.00199 0.00199 | 0.0807 0.00199   |
| Chloride by EPA 300               | Extracted: | Jul-07-17 16:30  | Jul-07-17 16:30  |                  |                  | Jul-07-17 16:30  | Jul-07-17 16:30  |
|                                   | Analyzed:  | Jul-07-17 20:40  | Jul-07-17 21:03  |                  |                  | Jul-07-17 21:10  | Jul-07-17 21:18  |
|                                   | Units/RL:  | mg/kg RL         | mg/kg RL         |                  |                  | mg/kg RL         | mg/kg RL         |
| Chloride                          |            | 355 4.95         | 326 4.92         |                  |                  | 50.9 4.93        | 589 4.91         |
| TPH by SW8015 Mod                 | Extracted: | Jul-04-17 10:00  | Jul-04-17 10:00  | Jul-04-17 10:00  | Jul-04-17 10:00  | Jul-04-17 10:00  | Jul-04-17 10:00  |
|                                   | Analyzed:  | Jul-04-17 15:20  | Jul-04-17 15:41  | Jul-04-17 16:02  | Jul-04-17 16:23  | Jul-04-17 17:27  | Jul-05-17 07:12  |
|                                   | Units/RL:  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Gasoline Range Hydrocarbons (GRO) |            | 27.5 15.0        | <15.0 15.0       | <15.0 15.0       | <14.9 14.9       | <15.0 15.0       | 1360 74.8        |
| Diesel Range Organics (DRO)       |            | 1020 15.0        | <15.0 15.0       | <15.0 15.0       | 54.4 14.9        | <15.0 15.0       | 8520 74.8        |
| Oil Range Hydrocarbons (ORO)      |            | 78.5 15.0        | <15.0 15.0       | <15.0 15.0       | <14.9 14.9       | <15.0 15.0       | 599 74.8         |
| Total TPH                         |            | 1130 15.0        | <15.0 15.0       | <15.0 15.0       | 54.4 14.9        | <15.0 15.0       | 10500 74.8       |

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Version: 1.9%

Mike Kimmel  
Client Services Manager



# Certificate of Analysis Summary 556808

TRC Solutions, Inc, Midland, TX

Project Name: Gunslinger 11 Federal Com #001H (03/18/17)



Project Id:

Contact: Nikki Green

Project Location: Lea Co NM

Date Received in Lab: Mon Jul-03-17 11:55 am

Report Date: 11-JUL-17

Project Manager: Kelsey Brooks

| <i>Analysis Requested</i>         | <i>Lab Id:</i>    | 556808-013       | 556808-014       | 556808-015       | 556808-016       | 556808-017      | 556808-018      |
|-----------------------------------|-------------------|------------------|------------------|------------------|------------------|-----------------|-----------------|
|                                   | <i>Field Id:</i>  | Trench-3 1'      | Trench-3 3'      | Trench-3 5'      | Trench-3 8'      | Trench-4 6"     | Trench-4 1'     |
|                                   | <i>Depth:</i>     |                  |                  |                  |                  |                 |                 |
|                                   | <i>Matrix:</i>    | SOIL             | SOIL             | SOIL             | SOIL             | SOIL            | SOIL            |
|                                   | <i>Sampled:</i>   | Jun-30-17 11:20  | Jun-30-17 11:30  | Jun-30-17 11:45  | Jun-30-17 12:00  | Jun-30-17 12:15 | Jun-30-17 12:20 |
| <b>BTEX by EPA 8021B</b>          | <i>Extracted:</i> | Jul-06-17 15:00  | Jul-06-17 15:00  | Jul-07-17 08:30  | Jul-06-17 15:00  | Jul-07-17 08:30 | Jul-07-17 08:30 |
|                                   | <i>Analyzed:</i>  | Jul-07-17 00:15  | Jul-07-17 00:31  | Jul-07-17 12:24  | Jul-07-17 01:04  | Jul-07-17 17:11 | Jul-07-17 17:28 |
|                                   | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL        |
| Benzene                           |                   | <0.00201 0.00201 | <0.00202 0.00202 | <0.00201 0.00201 | <0.00201 0.00201 | 0.0590 0.0498   | 0.174 0.101     |
| Toluene                           |                   | <0.00201 0.00201 | <0.00202 0.00202 | <0.00201 0.00201 | <0.00201 0.00201 | 0.387 0.0498    | 2.39 0.101      |
| Ethylbenzene                      |                   | <0.00201 0.00201 | <0.00202 0.00202 | <0.00201 0.00201 | <0.00201 0.00201 | 0.731 0.0498    | 1.92 0.101      |
| m,p-Xylenes                       |                   | 0.00807 0.00402  | 0.00563 0.00404  | <0.00402 0.00402 | 0.00858 0.00402  | 3.68 0.0996     | 38.8 0.202      |
| o-Xylene                          |                   | 0.00545 0.00201  | <0.00202 0.00202 | <0.00201 0.00201 | <0.00201 0.00201 | 4.19 0.0498     | 16.0 0.101      |
| Total Xylenes                     |                   | 0.0135 0.00201   | 0.00563 0.00202  | <0.00201 0.00201 | 0.00858 0.00201  | 7.87 0.0498     | 54.8 0.101      |
| Total BTEX                        |                   | 0.0135 0.00201   | 0.00563 0.00202  | <0.00201 0.00201 | 0.00858 0.00201  | 9.05 0.0498     | 59.3 0.101      |
| <b>Chloride by EPA 300</b>        | <i>Extracted:</i> | Jul-07-17 16:30  |                  |                  | Jul-07-17 16:30  | Jul-07-17 16:30 | Jul-07-17 16:30 |
|                                   | <i>Analyzed:</i>  | Jul-07-17 21:26  |                  |                  | Jul-07-17 21:33  | Jul-07-17 21:41 | Jul-07-17 22:04 |
|                                   | <i>Units/RL:</i>  | mg/kg RL         |                  |                  | mg/kg RL         | mg/kg RL        | mg/kg RL        |
| Chloride                          |                   | 136 4.92         |                  |                  | 193 4.98         | 155 4.92        | 50.8 4.96       |
| <b>TPH by SW8015 Mod</b>          | <i>Extracted:</i> | Jul-04-17 10:00  | Jul-04-17 10:00  | Jul-04-17 10:00  | Jul-04-17 10:00  | Jul-04-17 10:00 | Jul-04-17 10:00 |
|                                   | <i>Analyzed:</i>  | Jul-04-17 18:09  | Jul-04-17 18:31  | Jul-04-17 18:51  | Jul-04-17 19:12  | Jul-05-17 07:33 | Jul-05-17 07:54 |
|                                   | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL        |
| Gasoline Range Hydrocarbons (GRO) |                   | 141 15.0         | 34.3 15.0        | <15.0 15.0       | 21.3 15.0        | 1980 74.9       | 2920 74.9       |
| Diesel Range Organics (DRO)       |                   | 846 15.0         | 632 15.0         | <15.0 15.0       | 150 15.0         | 8860 74.9       | 5260 74.9       |
| Oil Range Hydrocarbons (ORO)      |                   | <15.0 15.0       | <15.0 15.0       | <15.0 15.0       | <15.0 15.0       | 691 74.9        | 368 74.9        |
| Total TPH                         |                   | 987 15.0         | 666 15.0         | <15.0 15.0       | 171 15.0         | 11500 74.9      | 8550 74.9       |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Mike Kimmel  
Client Services Manager



# Certificate of Analysis Summary 556808

TRC Solutions, Inc, Midland, TX

Project Name: Gunslinger 11 Federal Com #001H (03/18/17)



Project Id:

Contact: Nikki Green

Project Location: Lea Co NM

Date Received in Lab: Mon Jul-03-17 11:55 am

Report Date: 11-JUL-17

Project Manager: Kelsey Brooks

| <i>Analysis Requested</i>         | <i>Lab Id:</i>    | 556808-019      | 556808-020      | 556808-021       | 556808-022       | 556808-023       | 556808-024        |
|-----------------------------------|-------------------|-----------------|-----------------|------------------|------------------|------------------|-------------------|
|                                   | <i>Field Id:</i>  | Trench-4 3'     | Trench-4 5'     | Trench-4 8'      | Trench-4 11'     | Trench-4 17'     | North Trench-1 1' |
|                                   | <i>Depth:</i>     |                 |                 |                  |                  |                  |                   |
|                                   | <i>Matrix:</i>    | SOIL            | SOIL            | SOIL             | SOIL             | SOIL             | SOIL              |
|                                   | <i>Sampled:</i>   | Jun-30-17 12:30 | Jun-30-17 12:45 | Jun-30-17 13:00  | Jun-30-17 13:15  | Jun-30-17 13:30  | Jun-30-17 13:35   |
| <b>BTEX by EPA 8021B</b>          | <i>Extracted:</i> | Jul-10-17 15:00 | Jul-10-17 18:00 | Jul-10-17 08:00  | Jul-06-17 15:00  | Jul-06-17 15:00  | Jul-06-17 15:00   |
|                                   | <i>Analyzed:</i>  | Jul-10-17 23:45 | Jul-11-17 14:13 | Jul-10-17 16:11  | Jul-07-17 02:08  | Jul-07-17 02:24  | Jul-07-17 02:40   |
|                                   | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL          |
| Benzene                           |                   | <0.0202 0.0202  | <0.0199 0.0199  | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201  |
| Toluene                           |                   | 0.599 0.0202    | 11.0 D 0.201    | 0.00305 0.00200  | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201  |
| Ethylbenzene                      |                   | 0.542 0.0202    | 11.0 D 0.201    | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201  |
| m,p-Xylenes                       |                   | 7.10 0.0404     | 74.4 D 0.402    | 0.116 0.00401    | <0.00398 0.00398 | <0.00399 0.00399 | <0.00402 0.00402  |
| o-Xylene                          |                   | 3.18 0.0202     | 27.4 D 0.201    | 0.0859 0.00200   | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201  |
| Total Xylenes                     |                   | 10.3 0.0202     | 102 0.201       | 0.202 0.00200    | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201  |
| Total BTEX                        |                   | 11.4 0.0202     | 124 0.0199      | 0.205 0.00200    | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201  |
| <b>Chloride by EPA 300</b>        | <i>Extracted:</i> |                 |                 |                  |                  | Jul-07-17 16:30  | Jul-07-17 16:30   |
|                                   | <i>Analyzed:</i>  |                 |                 |                  |                  | Jul-07-17 22:12  | Jul-07-17 22:35   |
|                                   | <i>Units/RL:</i>  |                 |                 |                  |                  | mg/kg RL         | mg/kg RL          |
| Chloride                          |                   |                 |                 |                  |                  | 7.33 4.94        | 281 4.97          |
| <b>TPH by SW8015 Mod</b>          | <i>Extracted:</i> | Jul-04-17 10:00 | Jul-04-17 10:00 | Jul-04-17 10:00  | Jul-04-17 10:00  | Jul-04-17 10:00  | Jul-04-17 10:00   |
|                                   | <i>Analyzed:</i>  | Jul-04-17 20:15 | Jul-04-17 20:36 | Jul-04-17 22:23  | Jul-04-17 23:28  | Jul-04-17 23:49  | Jul-05-17 00:10   |
|                                   | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL          |
| Gasoline Range Hydrocarbons (GRO) |                   | 415 15.0        | 2740 15.0       | 317 15.0         | 16.4 15.0        | <15.0 15.0       | <15.0 15.0        |
| Diesel Range Organics (DRO)       |                   | 1160 15.0       | 4310 15.0       | 1200 15.0        | 130 15.0         | <15.0 15.0       | <15.0 15.0        |
| Oil Range Hydrocarbons (ORO)      |                   | 45.8 15.0       | 355 15.0        | 89.1 15.0        | <15.0 15.0       | <15.0 15.0       | <15.0 15.0        |
| Total TPH                         |                   | 1620 15.0       | 7410 15.0       | 1610 15.0        | 146 15.0         | <15.0 15.0       | <15.0 15.0        |

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Mike Kimmel  
Client Services Manager



# Certificate of Analysis Summary 556808

TRC Solutions, Inc, Midland, TX

Project Name: Gunslinger 11 Federal Com #001H (03/18/17)



Project Id:

Contact: Nikki Green

Project Location: Lea Co NM

Date Received in Lab: Mon Jul-03-17 11:55 am

Report Date: 11-JUL-17

Project Manager: Kelsey Brooks

|                                   |                   |                  |                   |                  |  |  |  |
|-----------------------------------|-------------------|------------------|-------------------|------------------|--|--|--|
| <b>Analysis Requested</b>         | <b>Lab Id:</b>    | 556808-025       | 556808-026        | 556808-027       |  |  |  |
|                                   | <b>Field Id:</b>  | East Trench-1 1' | South Trench-1 1' | WesT Trench-1 1' |  |  |  |
|                                   | <b>Depth:</b>     |                  |                   |                  |  |  |  |
|                                   | <b>Matrix:</b>    | SOIL             | SOIL              | SOIL             |  |  |  |
|                                   | <b>Sampled:</b>   | Jun-30-17 13:45  | Jun-30-17 13:55   | Jun-30-17 10:10  |  |  |  |
| <b>BTEX by EPA 8021B</b>          | <b>Extracted:</b> | Jul-06-17 15:00  | Jul-06-17 15:00   | Jul-10-17 18:00  |  |  |  |
|                                   | <b>Analyzed:</b>  | Jul-07-17 02:56  | Jul-07-17 03:12   | Jul-11-17 13:56  |  |  |  |
|                                   | <b>Units/RL:</b>  | mg/kg RL         | mg/kg RL          | mg/kg RL         |  |  |  |
|                                   |                   |                  |                   |                  |  |  |  |
| Benzene                           |                   | <0.00200 0.00200 | <0.00198 0.00198  | <0.0202 0.0202   |  |  |  |
| Toluene                           |                   | <0.00200 0.00200 | <0.00198 0.00198  | 0.278 0.0202     |  |  |  |
| Ethylbenzene                      |                   | <0.00200 0.00200 | <0.00198 0.00198  | 0.373 0.0202     |  |  |  |
| m,p-Xylenes                       |                   | <0.00401 0.00401 | <0.00397 0.00397  | 2.08 0.0403      |  |  |  |
| o-Xylene                          |                   | <0.00200 0.00200 | <0.00198 0.00198  | 2.03 0.0202      |  |  |  |
| Total Xylenes                     |                   | <0.00200 0.00200 | <0.00198 0.00198  | 4.11 0.0202      |  |  |  |
| Total BTEX                        |                   | <0.00200 0.00200 | <0.00198 0.00198  | 4.76 0.0202      |  |  |  |
| <b>Chloride by EPA 300</b>        | <b>Extracted:</b> | Jul-07-17 16:30  | Jul-07-17 16:30   | Jul-07-17 16:30  |  |  |  |
|                                   | <b>Analyzed:</b>  | Jul-07-17 22:43  | Jul-07-17 22:50   | Jul-07-17 22:58  |  |  |  |
|                                   | <b>Units/RL:</b>  | mg/kg RL         | mg/kg RL          | mg/kg RL         |  |  |  |
|                                   |                   |                  |                   |                  |  |  |  |
| Chloride                          |                   | 298 4.97         | 38.0 4.94         | 74.9 4.95        |  |  |  |
| <b>TPH by SW8015 Mod</b>          | <b>Extracted:</b> | Jul-04-17 10:00  | Jul-04-17 10:00   | Jul-04-17 10:00  |  |  |  |
|                                   | <b>Analyzed:</b>  | Jul-05-17 00:31  | Jul-05-17 00:53   | Jul-05-17 01:14  |  |  |  |
|                                   | <b>Units/RL:</b>  | mg/kg RL         | mg/kg RL          | mg/kg RL         |  |  |  |
|                                   |                   |                  |                   |                  |  |  |  |
| Gasoline Range Hydrocarbons (GRO) |                   | <15.0 15.0       | <15.0 15.0        | 1380 15.0        |  |  |  |
| Diesel Range Organics (DRO)       |                   | 28.8 15.0        | 142 15.0          | 4940 15.0        |  |  |  |
| Oil Range Hydrocarbons (ORO)      |                   | <15.0 15.0       | 25.3 15.0         | 424 15.0         |  |  |  |
| Total TPH                         |                   | 28.8 15.0        | 167 15.0          | 6740 15.0        |  |  |  |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Mike Kimmel  
Client Services Manager

# **Analytical Report 556808**

**for  
TRC Solutions, Inc**

**Project Manager: Nikki Green  
Gunslinger 11 Federal Com #001H (03/18/17)**

**11-JUL-17**

Collected By: Client



**1211 W. Florida Ave, Midland TX 79701**

Xenco-Houston (EPA Lab code: TX00122):  
Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054)  
Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295)  
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)  
Xenco-San Antonio: Texas (T104704534)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)  
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



11-JUL-17

Project Manager: **Nikki Green**

**TRC Solutions, Inc**

2057 Commerce

Midland, TX 79703

Reference: XENCO Report No(s): **556808**

**Gunslinger 11 Federal Com #001H (03/18/17)**

Project Address: Lea Co NM

**Nikki Green:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 556808. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 556808 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

**Mike Kimmel**

Client Services Manager

***Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.***

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## TRC Solutions, Inc, Midland, TX

Gunslinger 11 Federal Com #001H (03/18/17)

| Sample Id         | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-------------------|--------|----------------|--------------|---------------|
| OS-1 3"           | S      | 06-30-17 08:50 |              | 556808-001    |
| OS-2 3"           | S      | 06-30-17 08:55 |              | 556808-002    |
| Trench-1 1'       | S      | 06-30-17 09:00 |              | 556808-003    |
| Trench-1 3'       | S      | 06-30-17 09:15 |              | 556808-004    |
| Trench-1 5'       | S      | 06-30-17 09:30 |              | 556808-005    |
| Trench-1 8'       | S      | 06-30-17 09:45 |              | 556808-006    |
| Trench-2 6"       | S      | 06-30-17 10:00 |              | 556808-007    |
| Trench-2 1'       | S      | 06-30-17 10:20 |              | 556808-008    |
| Trench-2 3'       | S      | 06-30-17 10:30 |              | 556808-009    |
| Trench-2 5'       | S      | 06-30-17 10:45 |              | 556808-010    |
| Trench-2 8'       | S      | 06-30-17 11:00 |              | 556808-011    |
| Trench-3 6"       | S      | 06-30-17 11:15 |              | 556808-012    |
| Trench-3 1'       | S      | 06-30-17 11:20 |              | 556808-013    |
| Trench-3 3'       | S      | 06-30-17 11:30 |              | 556808-014    |
| Trench-3 5'       | S      | 06-30-17 11:45 |              | 556808-015    |
| Trench-3 8'       | S      | 06-30-17 12:00 |              | 556808-016    |
| Trench-4 6"       | S      | 06-30-17 12:15 |              | 556808-017    |
| Trench-4 1'       | S      | 06-30-17 12:20 |              | 556808-018    |
| Trench-4 3'       | S      | 06-30-17 12:30 |              | 556808-019    |
| Trench-4 5'       | S      | 06-30-17 12:45 |              | 556808-020    |
| Trench-4 8'       | S      | 06-30-17 13:00 |              | 556808-021    |
| Trench-4 11'      | S      | 06-30-17 13:15 |              | 556808-022    |
| Trench-4 17'      | S      | 06-30-17 13:30 |              | 556808-023    |
| North Trench-1 1' | S      | 06-30-17 13:35 |              | 556808-024    |
| East Trench-1 1'  | S      | 06-30-17 13:45 |              | 556808-025    |
| South Trench-1 1' | S      | 06-30-17 13:55 |              | 556808-026    |
| WesT Trench-1 1'  | S      | 06-30-17 10:10 |              | 556808-027    |



## CASE NARRATIVE

**Client Name:** TRC Solutions, Inc

**Project Name:** Gunslinger 11 Federal Com #001H (03/18/17)

Project ID:

Work Order Number(s): 556808

Report Date: 11-JUL-17

Date Received: 07/03/2017

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### Sample receipt non conformances and comments:

---

#### Sample receipt non conformances and comments per sample:

None

#### Analytical non conformances and comments:

Batch: LBA-3021649 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3021700 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3021705 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3021783 Chloride by EPA 300

Lab Sample ID 556808-017 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 556808-001, -002, -003, -006, -007, -008, -011, -012, -013, -016, -017, -018, -023, -024, -025, -026, -027.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3021854 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3021934 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3021965 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 556808-020.



## **CASE NARRATIVE**

***Client Name: TRC Solutions, Inc***

***Project Name: Gunslinger 11 Federal Com #001H (03/18/17)***

Project ID:

Work Order Number(s): 556808

Report Date: 11-JUL-17

Date Received: 07/03/2017

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# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: OS-1 3"  
Lab Sample Id: 556808-001

Matrix: Soil  
Date Collected: 06.30.17 08.50

Date Received: 07.03.17 11.55

Analytical Method: Chloride by EPA 300  
Tech: MGO  
Analyst: MGO  
Seq Number: 3021783

Prep Method: E300P  
% Moisture:  
Basis: Wet Weight  
Date Prep: 07.07.17 16.30

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 13.8   | 4.91 | mg/kg | 07.07.17 19.54 |      | 1   |

Analytical Method: TPH by SW8015 Mod  
Tech: ARM  
Analyst: ARM  
Seq Number: 3021776

Prep Method: TX1005P  
% Moisture:  
Basis: Wet Weight  
Date Prep: 07.04.17 10.00

| Parameter                         | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|-----------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610            | <15.0             | 15.0         | mg/kg         | 07.04.17 12.36       | U           | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO         | <15.0             | 15.0         | mg/kg         | 07.04.17 12.36       | U           | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835          | <15.0             | 15.0         | mg/kg         | 07.04.17 12.36       | U           | 1   |
| Total TPH                         | PHC635            | <15.0             | 15.0         | mg/kg         | 07.04.17 12.36       | U           | 1   |
| <b>Surrogate</b>                  | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1-Chlorooctane                    | 111-85-3          | 112               | %            | 70-135        | 07.04.17 12.36       |             |     |
| o-Terphenyl                       | 84-15-1           | 111               | %            | 70-135        | 07.04.17 12.36       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **OS-1 3"**  
Lab Sample Id: 556808-001

Matrix: Soil  
Date Collected: 06.30.17 08.50

Date Received: 07.03.17 11.55

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 09.30

Basis: Wet Weight

Seq Number: 3021649

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00202          | 0.00202      | mg/kg         | 07.06.17 18.35       | U           | 1   |
| Toluene              | 108-88-3          | <0.00202          | 0.00202      | mg/kg         | 07.06.17 18.35       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00202          | 0.00202      | mg/kg         | 07.06.17 18.35       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00404          | 0.00404      | mg/kg         | 07.06.17 18.35       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00202          | 0.00202      | mg/kg         | 07.06.17 18.35       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00202          | 0.00202      | mg/kg         | 07.06.17 18.35       | U           | 1   |
| Total BTEX           |                   | <0.00202          | 0.00202      | mg/kg         | 07.06.17 18.35       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 106               | %            | 80-120        | 07.06.17 18.35       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 99                | %            | 80-120        | 07.06.17 18.35       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: OS-2 3"  
Lab Sample Id: 556808-002

Matrix: Soil  
Date Collected: 06.30.17 08.55

Date Received: 07.03.17 11.55

Analytical Method: Chloride by EPA 300  
Tech: MGO  
Analyst: MGO  
Seq Number: 3021783

Prep Method: E300P  
% Moisture:  
Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 82.6   | 4.97 | mg/kg | 07.07.17 20.17 |      | 1   |

Analytical Method: TPH by SW8015 Mod  
Tech: ARM  
Analyst: ARM  
Seq Number: 3021776

Prep Method: TX1005P  
% Moisture:  
Basis: Wet Weight

| Parameter                         | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|-----------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610            | <15.0             | 15.0         | mg/kg         | 07.04.17 13.37       | U           | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO         | <15.0             | 15.0         | mg/kg         | 07.04.17 13.37       | U           | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835          | <15.0             | 15.0         | mg/kg         | 07.04.17 13.37       | U           | 1   |
| Total TPH                         | PHC635            | <15.0             | 15.0         | mg/kg         | 07.04.17 13.37       | U           | 1   |
| <b>Surrogate</b>                  | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1-Chlorooctane                    | 111-85-3          | 105               | %            | 70-135        | 07.04.17 13.37       |             |     |
| o-Terphenyl                       | 84-15-1           | 106               | %            | 70-135        | 07.04.17 13.37       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: OS-2 3"  
Lab Sample Id: 556808-002

Matrix: Soil  
Date Collected: 06.30.17 08.55

Date Received: 07.03.17 11.55

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 09.30

Basis: Wet Weight

Seq Number: 3021649

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 07.06.17 18.51       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 07.06.17 18.51       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 07.06.17 18.51       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00401          | 0.00401      | mg/kg         | 07.06.17 18.51       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 07.06.17 18.51       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 07.06.17 18.51       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 07.06.17 18.51       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 108               | %            | 80-120        | 07.06.17 18.51       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 104               | %            | 80-120        | 07.06.17 18.51       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-1 1'**  
Lab Sample Id: 556808-003

Matrix: Soil  
Date Collected: 06.30.17 09.00

Date Received: 07.03.17 11.55

Analytical Method: Chloride by EPA 300  
Tech: MGO  
Analyst: MGO  
Seq Number: 3021783

Date Prep: 07.07.17 16.30

Prep Method: E300P  
% Moisture:  
Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 84.0   | 4.95 | mg/kg | 07.07.17 20.24 |      | 1   |

Analytical Method: TPH by SW8015 Mod  
Tech: ARM  
Analyst: ARM  
Seq Number: 3021776

Date Prep: 07.04.17 10.00

Prep Method: TX1005P  
% Moisture:  
Basis: Wet Weight

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 724        | 15.0  | mg/kg  | 07.04.17 13.57 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 1860       | 15.0  | mg/kg  | 07.04.17 13.57 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 153        | 15.0  | mg/kg  | 07.04.17 13.57 |      | 1   |
| Total TPH                         | PHC635     | 2740       | 15.0  | mg/kg  | 07.04.17 13.57 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 110        | %     | 70-135 | 07.04.17 13.57 |      |     |
| o-Terphenyl                       | 84-15-1    | 93         | %     | 70-135 | 07.04.17 13.57 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-1 1'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-003

Date Collected: 06.30.17 09.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 09.30

Basis: Wet Weight

Seq Number: 3021649

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 07.06.17 20.28       | U           | 1   |
| <b>Toluene</b>       | 108-88-3          | <b>0.00585</b>    | 0.00199      | mg/kg         | 07.06.17 20.28       |             | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 07.06.17 20.28       | U           | 1   |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>0.210</b>      | 0.00398      | mg/kg         | 07.06.17 20.28       |             | 1   |
| <b>o-Xylene</b>      | 95-47-6           | <b>0.112</b>      | 0.00199      | mg/kg         | 07.06.17 20.28       |             | 1   |
| <b>Total Xylenes</b> | 1330-20-7         | <b>0.322</b>      | 0.00199      | mg/kg         | 07.06.17 20.28       |             | 1   |
| <b>Total BTEX</b>    |                   | <b>0.328</b>      | 0.00199      | mg/kg         | 07.06.17 20.28       |             | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 119               | %            | 80-120        | 07.06.17 20.28       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 99                | %            | 80-120        | 07.06.17 20.28       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-1 3'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-004

Date Collected: 06.30.17 09.15

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.04.17 10.00

Basis: Wet Weight

Seq Number: 3021776

| Parameter                          | Cas Number | Result      | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|-------------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <15.0       | 15.0 | mg/kg | 07.04.17 14.19 | U    | 1   |
| <b>Diesel Range Organics (DRO)</b> | C10C28DRO  | <b>24.7</b> | 15.0 | mg/kg | 07.04.17 14.19 |      | 1   |
| Oil Range Hydrocarbons (ORO)       | PHCG2835   | <15.0       | 15.0 | mg/kg | 07.04.17 14.19 | U    | 1   |
| <b>Total TPH</b>                   | PHC635     | <b>24.7</b> | 15.0 | mg/kg | 07.04.17 14.19 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 110        | %     | 70-135 | 07.04.17 14.19 |      |
| o-Terphenyl    | 84-15-1    | 111        | %     | 70-135 | 07.04.17 14.19 |      |

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 09.30

Basis: Wet Weight

Seq Number: 3021649

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|---------------|-------------|----------|---------|-------|----------------|------|-----|
| Benzene       | 71-43-2     | <0.00198 | 0.00198 | mg/kg | 07.06.17 19.08 | U    | 1   |
| Toluene       | 108-88-3    | <0.00198 | 0.00198 | mg/kg | 07.06.17 19.08 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00198 | 0.00198 | mg/kg | 07.06.17 19.08 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 07.06.17 19.08 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00198 | 0.00198 | mg/kg | 07.06.17 19.08 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00198 | 0.00198 | mg/kg | 07.06.17 19.08 | U    | 1   |
| Total BTEX    |             | <0.00198 | 0.00198 | mg/kg | 07.06.17 19.08 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 109        | %     | 80-120 | 07.06.17 19.08 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 98         | %     | 80-120 | 07.06.17 19.08 |      |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-1 5'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-005

Date Collected: 06.30.17 09.30

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.04.17 10.00

Basis: Wet Weight

Seq Number: 3021776

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 19.0       | 15.0  | mg/kg  | 07.04.17 14.39 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 176        | 15.0  | mg/kg  | 07.04.17 14.39 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0      | 15.0  | mg/kg  | 07.04.17 14.39 | U    | 1   |
| Total TPH                         | PHC635     | 195        | 15.0  | mg/kg  | 07.04.17 14.39 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 109        | %     | 70-135 | 07.04.17 14.39 |      |     |
| o-Terphenyl                       | 84-15-1    | 109        | %     | 70-135 | 07.04.17 14.39 |      |     |

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 09.30

Basis: Wet Weight

Seq Number: 3021649

| Parameter            | Cas Number  | Result     | RL      | Units  | Analysis Date  | Flag | Dil |
|----------------------|-------------|------------|---------|--------|----------------|------|-----|
| Benzene              | 71-43-2     | <0.00200   | 0.00200 | mg/kg  | 07.06.17 19.24 | U    | 1   |
| Toluene              | 108-88-3    | <0.00200   | 0.00200 | mg/kg  | 07.06.17 19.24 | U    | 1   |
| Ethylbenzene         | 100-41-4    | <0.00200   | 0.00200 | mg/kg  | 07.06.17 19.24 | U    | 1   |
| m,p-Xylenes          | 179601-23-1 | <0.00399   | 0.00399 | mg/kg  | 07.06.17 19.24 | U    | 1   |
| o-Xylene             | 95-47-6     | <0.00200   | 0.00200 | mg/kg  | 07.06.17 19.24 | U    | 1   |
| Total Xylenes        | 1330-20-7   | <0.00200   | 0.00200 | mg/kg  | 07.06.17 19.24 | U    | 1   |
| Total BTEX           |             | <0.00200   | 0.00200 | mg/kg  | 07.06.17 19.24 | U    | 1   |
| Surrogate            | Cas Number  | % Recovery | Units   | Limits | Analysis Date  | Flag |     |
| 1,4-Difluorobenzene  | 540-36-3    | 95         | %       | 80-120 | 07.06.17 19.24 |      |     |
| 4-Bromofluorobenzene | 460-00-4    | 87         | %       | 80-120 | 07.06.17 19.24 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-1 8'**  
Lab Sample Id: 556808-006

Matrix: Soil  
Date Collected: 06.30.17 09.45

Date Received: 07.03.17 11.55

Analytical Method: Chloride by EPA 300  
Tech: MGO  
Analyst: MGO  
Seq Number: 3021783

Date Prep: 07.07.17 16.30

Prep Method: E300P  
% Moisture:  
Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 85.2   | 4.94 | mg/kg | 07.07.17 20.32 |      | 1   |

Analytical Method: TPH by SW8015 Mod  
Tech: ARM  
Analyst: ARM  
Seq Number: 3021776

Date Prep: 07.04.17 10.00

Prep Method: TX1005P  
% Moisture:  
Basis: Wet Weight

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0      | 15.0  | mg/kg  | 07.04.17 14.59 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 70.2       | 15.0  | mg/kg  | 07.04.17 14.59 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0      | 15.0  | mg/kg  | 07.04.17 14.59 | U    | 1   |
| Total TPH                         | PHC635     | 70.2       | 15.0  | mg/kg  | 07.04.17 14.59 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 115        | %     | 70-135 | 07.04.17 14.59 |      |     |
| o-Terphenyl                       | 84-15-1    | 118        | %     | 70-135 | 07.04.17 14.59 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-1 8'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-006

Date Collected: 06.30.17 09.45

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 09.30

Basis: Wet Weight

Seq Number: 3021649

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00202          | 0.00202      | mg/kg         | 07.06.17 19.40       | U           | 1   |
| Toluene              | 108-88-3          | <0.00202          | 0.00202      | mg/kg         | 07.06.17 19.40       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00202          | 0.00202      | mg/kg         | 07.06.17 19.40       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00403          | 0.00403      | mg/kg         | 07.06.17 19.40       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00202          | 0.00202      | mg/kg         | 07.06.17 19.40       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00202          | 0.00202      | mg/kg         | 07.06.17 19.40       | U           | 1   |
| Total BTEX           |                   | <0.00202          | 0.00202      | mg/kg         | 07.06.17 19.40       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 110               | %            | 80-120        | 07.06.17 19.40       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 103               | %            | 80-120        | 07.06.17 19.40       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-2 6"**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-007

Date Collected: 06.30.17 10.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MGO

% Moisture:

Analyst: MGO

Date Prep: 07.07.17 16.30

Basis: Wet Weight

Seq Number: 3021783

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 355    | 4.95 | mg/kg | 07.07.17 20.40 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.04.17 10.00

Basis: Wet Weight

Seq Number: 3021776

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 27.5       | 15.0  | mg/kg  | 07.04.17 15.20 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 1020       | 15.0  | mg/kg  | 07.04.17 15.20 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 78.5       | 15.0  | mg/kg  | 07.04.17 15.20 |      | 1   |
| Total TPH                         | PHC635     | 1130       | 15.0  | mg/kg  | 07.04.17 15.20 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 108        | %     | 70-135 | 07.04.17 15.20 |      |     |
| o-Terphenyl                       | 84-15-1    | 90         | %     | 70-135 | 07.04.17 15.20 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-2 6"**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-007

Date Collected: 06.30.17 10.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 15.00

Basis: Wet Weight

Seq Number: 3021700

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00201          | 0.00201      | mg/kg         | 07.06.17 22.54       | U           | 1   |
| Toluene              | 108-88-3          | <0.00201          | 0.00201      | mg/kg         | 07.06.17 22.54       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00201          | 0.00201      | mg/kg         | 07.06.17 22.54       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00402          | 0.00402      | mg/kg         | 07.06.17 22.54       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00201          | 0.00201      | mg/kg         | 07.06.17 22.54       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00201          | 0.00201      | mg/kg         | 07.06.17 22.54       | U           | 1   |
| Total BTEX           |                   | <0.00201          | 0.00201      | mg/kg         | 07.06.17 22.54       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 93                | %            | 80-120        | 07.06.17 22.54       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 106               | %            | 80-120        | 07.06.17 22.54       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-2 1'** Matrix: Soil Date Received: 07.03.17 11.55  
Lab Sample Id: 556808-008 Date Collected: 06.30.17 10.20  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MGO % Moisture:  
Analyst: MGO Date Prep: 07.07.17 16.30 Basis: Wet Weight  
Seq Number: 3021783

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 326    | 4.92 | mg/kg | 07.07.17 21.03 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 07.04.17 10.00 Basis: Wet Weight  
Seq Number: 3021776

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0  | 15.0 | mg/kg | 07.04.17 15.41 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | <15.0  | 15.0 | mg/kg | 07.04.17 15.41 | U    | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0  | 15.0 | mg/kg | 07.04.17 15.41 | U    | 1   |
| Total TPH                         | PHC635     | <15.0  | 15.0 | mg/kg | 07.04.17 15.41 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 110        | %     | 70-135 | 07.04.17 15.41 |      |
| o-Terphenyl    | 84-15-1    | 111        | %     | 70-135 | 07.04.17 15.41 |      |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-2 1'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-008

Date Collected: 06.30.17 10.20

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 15.00

Basis: Wet Weight

Seq Number: 3021700

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 07.06.17 23.10       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 07.06.17 23.10       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 07.06.17 23.10       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00399          | 0.00399      | mg/kg         | 07.06.17 23.10       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 07.06.17 23.10       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 07.06.17 23.10       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 07.06.17 23.10       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 91                | %            | 80-120        | 07.06.17 23.10       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 92                | %            | 80-120        | 07.06.17 23.10       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-2 3'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-009

Date Collected: 06.30.17 10.30

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.04.17 10.00

Basis: Wet Weight

Seq Number: 3021776

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0  | 15.0 | mg/kg | 07.04.17 16.02 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | <15.0  | 15.0 | mg/kg | 07.04.17 16.02 | U    | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0  | 15.0 | mg/kg | 07.04.17 16.02 | U    | 1   |
| Total TPH                         | PHC635     | <15.0  | 15.0 | mg/kg | 07.04.17 16.02 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 113        | %     | 70-135 | 07.04.17 16.02 |      |
| o-Terphenyl    | 84-15-1    | 113        | %     | 70-135 | 07.04.17 16.02 |      |

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 15.00

Basis: Wet Weight

Seq Number: 3021700

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|---------------|-------------|----------|---------|-------|----------------|------|-----|
| Benzene       | 71-43-2     | <0.00199 | 0.00199 | mg/kg | 07.06.17 23.27 | U    | 1   |
| Toluene       | 108-88-3    | <0.00199 | 0.00199 | mg/kg | 07.06.17 23.27 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00199 | 0.00199 | mg/kg | 07.06.17 23.27 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.06.17 23.27 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00199 | 0.00199 | mg/kg | 07.06.17 23.27 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00199 | 0.00199 | mg/kg | 07.06.17 23.27 | U    | 1   |
| Total BTEX    |             | <0.00199 | 0.00199 | mg/kg | 07.06.17 23.27 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 101        | %     | 80-120 | 07.06.17 23.27 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 116        | %     | 80-120 | 07.06.17 23.27 |      |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-2 5'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-010

Date Collected: 06.30.17 10.45

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.04.17 10.00

Basis: Wet Weight

Seq Number: 3021776

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <14.9             | 14.9         | mg/kg         | 07.04.17 16.23       | U           | 1   |
| <b>Diesel Range Organics (DRO)</b> | C10C28DRO         | <b>54.4</b>       | 14.9         | mg/kg         | 07.04.17 16.23       |             | 1   |
| Oil Range Hydrocarbons (ORO)       | PHCG2835          | <14.9             | 14.9         | mg/kg         | 07.04.17 16.23       | U           | 1   |
| <b>Total TPH</b>                   | PHC635            | <b>54.4</b>       | 14.9         | mg/kg         | 07.04.17 16.23       |             | 1   |
| <b>Surrogate</b>                   | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1-Chlorooctane                     | 111-85-3          | 111               | %            | 70-135        | 07.04.17 16.23       |             |     |
| o-Terphenyl                        | 84-15-1           | 113               | %            | 70-135        | 07.04.17 16.23       |             |     |

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 15.00

Basis: Wet Weight

Seq Number: 3021700

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00202          | 0.00202      | mg/kg         | 07.06.17 23.43       | U           | 1   |
| Toluene              | 108-88-3          | <0.00202          | 0.00202      | mg/kg         | 07.06.17 23.43       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00202          | 0.00202      | mg/kg         | 07.06.17 23.43       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00403          | 0.00403      | mg/kg         | 07.06.17 23.43       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00202          | 0.00202      | mg/kg         | 07.06.17 23.43       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00202          | 0.00202      | mg/kg         | 07.06.17 23.43       | U           | 1   |
| Total BTEX           |                   | <0.00202          | 0.00202      | mg/kg         | 07.06.17 23.43       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 93                | %            | 80-120        | 07.06.17 23.43       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 100               | %            | 80-120        | 07.06.17 23.43       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-2 8'**  
Lab Sample Id: 556808-011

Matrix: Soil  
Date Collected: 06.30.17 11.00

Date Received: 07.03.17 11.55

Analytical Method: Chloride by EPA 300  
Tech: MGO  
Analyst: MGO  
Seq Number: 3021783

Prep Method: E300P  
% Moisture:  
Basis: Wet Weight  
Date Prep: 07.07.17 16.30

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 50.9   | 4.93 | mg/kg | 07.07.17 21.10 |      | 1   |

Analytical Method: TPH by SW8015 Mod  
Tech: ARM  
Analyst: ARM  
Seq Number: 3021776

Prep Method: TX1005P  
% Moisture:  
Basis: Wet Weight  
Date Prep: 07.04.17 10.00

| Parameter                         | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|-----------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610            | <15.0             | 15.0         | mg/kg         | 07.04.17 17.27       | U           | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO         | <15.0             | 15.0         | mg/kg         | 07.04.17 17.27       | U           | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835          | <15.0             | 15.0         | mg/kg         | 07.04.17 17.27       | U           | 1   |
| Total TPH                         | PHC635            | <15.0             | 15.0         | mg/kg         | 07.04.17 17.27       | U           | 1   |
| <b>Surrogate</b>                  | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1-Chlorooctane                    | 111-85-3          | 113               | %            | 70-135        | 07.04.17 17.27       |             |     |
| o-Terphenyl                       | 84-15-1           | 114               | %            | 70-135        | 07.04.17 17.27       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-2 8'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-011

Date Collected: 06.30.17 11.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 15.00

Basis: Wet Weight

Seq Number: 3021700

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 07.06.17 23.59       | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 07.06.17 23.59       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 07.06.17 23.59       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00398          | 0.00398      | mg/kg         | 07.06.17 23.59       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00199          | 0.00199      | mg/kg         | 07.06.17 23.59       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00199          | 0.00199      | mg/kg         | 07.06.17 23.59       | U           | 1   |
| Total BTEX           |                   | <0.00199          | 0.00199      | mg/kg         | 07.06.17 23.59       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 93                | %            | 80-120        | 07.06.17 23.59       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 97                | %            | 80-120        | 07.06.17 23.59       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-3 6"**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-012

Date Collected: 06.30.17 11.15

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MGO

% Moisture:

Analyst: MGO

Date Prep: 07.07.17 16.30

Basis: Wet Weight

Seq Number: 3021783

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 589    | 4.91 | mg/kg | 07.07.17 21.18 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.04.17 10.00

Basis: Wet Weight

Seq Number: 3021776

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 1360       | 74.8  | mg/kg  | 07.05.17 07.12 |      | 5   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 8520       | 74.8  | mg/kg  | 07.05.17 07.12 |      | 5   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 599        | 74.8  | mg/kg  | 07.05.17 07.12 |      | 5   |
| Total TPH                         | PHC635     | 10500      | 74.8  | mg/kg  | 07.05.17 07.12 |      | 5   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 101        | %     | 70-135 | 07.05.17 07.12 |      |     |
| o-Terphenyl                       | 84-15-1    | 99         | %     | 70-135 | 07.05.17 07.12 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-3 6"**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-012

Date Collected: 06.30.17 11.15

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.07.17 08.30

Basis: Wet Weight

Seq Number: 3021705

| Parameter            | Cas Number  | Result        | RL      | Units | Analysis Date  | Flag           | Dil  |
|----------------------|-------------|---------------|---------|-------|----------------|----------------|------|
| Benzene              | 71-43-2     | <0.00199      | 0.00199 | mg/kg | 07.07.17 15.22 | U              | 1    |
| Toluene              | 108-88-3    | <0.00199      | 0.00199 | mg/kg | 07.07.17 15.22 | U              | 1    |
| Ethylbenzene         | 100-41-4    | <0.00199      | 0.00199 | mg/kg | 07.07.17 15.22 | U              | 1    |
| m,p-Xylenes          | 179601-23-1 | <b>0.0489</b> | 0.00398 | mg/kg | 07.07.17 15.22 |                | 1    |
| o-Xylene             | 95-47-6     | <b>0.0318</b> | 0.00199 | mg/kg | 07.07.17 15.22 |                | 1    |
| Total Xylenes        | 1330-20-7   | <b>0.0807</b> | 0.00199 | mg/kg | 07.07.17 15.22 |                | 1    |
| Total BTEX           |             | <b>0.0807</b> | 0.00199 | mg/kg | 07.07.17 15.22 |                | 1    |
| Surrogate            | Cas Number  | % Recovery    |         | Units | Limits         | Analysis Date  | Flag |
| 4-Bromofluorobenzene | 460-00-4    | 88            |         | %     | 80-120         | 07.07.17 15.22 |      |
| 1,4-Difluorobenzene  | 540-36-3    | 82            |         | %     | 80-120         | 07.07.17 15.22 |      |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-3 1'**  
Lab Sample Id: 556808-013

Matrix: Soil  
Date Collected: 06.30.17 11.20

Date Received: 07.03.17 11.55

Analytical Method: Chloride by EPA 300  
Tech: MGO  
Analyst: MGO  
Seq Number: 3021783

Date Prep: 07.07.17 16.30

Prep Method: E300P  
% Moisture:  
Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 136    | 4.92 | mg/kg | 07.07.17 21.26 |      | 1   |

Analytical Method: TPH by SW8015 Mod  
Tech: ARM  
Analyst: ARM  
Seq Number: 3021776

Date Prep: 07.04.17 10.00

Prep Method: TX1005P  
% Moisture:  
Basis: Wet Weight

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 141        | 15.0  | mg/kg  | 07.04.17 18.09 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 846        | 15.0  | mg/kg  | 07.04.17 18.09 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0      | 15.0  | mg/kg  | 07.04.17 18.09 | U    | 1   |
| Total TPH                         | PHC635     | 987        | 15.0  | mg/kg  | 07.04.17 18.09 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 96         | %     | 70-135 | 07.04.17 18.09 |      |     |
| o-Terphenyl                       | 84-15-1    | 84         | %     | 70-135 | 07.04.17 18.09 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-3 1'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-013

Date Collected: 06.30.17 11.20

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 15.00

Basis: Wet Weight

Seq Number: 3021700

| Parameter            | Cas Number  | Result         | RL      | Units  | Analysis Date  | Flag          | Dil  |
|----------------------|-------------|----------------|---------|--------|----------------|---------------|------|
| Benzene              | 71-43-2     | <0.00201       | 0.00201 | mg/kg  | 07.07.17 00.15 | U             | 1    |
| Toluene              | 108-88-3    | <0.00201       | 0.00201 | mg/kg  | 07.07.17 00.15 | U             | 1    |
| Ethylbenzene         | 100-41-4    | <0.00201       | 0.00201 | mg/kg  | 07.07.17 00.15 | U             | 1    |
| m,p-Xylenes          | 179601-23-1 | <b>0.00807</b> | 0.00402 | mg/kg  | 07.07.17 00.15 |               | 1    |
| o-Xylene             | 95-47-6     | <b>0.00545</b> | 0.00201 | mg/kg  | 07.07.17 00.15 |               | 1    |
| Total Xylenes        | 1330-20-7   | <b>0.0135</b>  | 0.00201 | mg/kg  | 07.07.17 00.15 |               | 1    |
| Total BTEX           |             | <b>0.0135</b>  | 0.00201 | mg/kg  | 07.07.17 00.15 |               | 1    |
| Surrogate            | Cas Number  | % Recovery     |         | Units  | Limits         | Analysis Date | Flag |
| 1,4-Difluorobenzene  | 540-36-3    | 98             | %       | 80-120 | 07.07.17 00.15 |               |      |
| 4-Bromofluorobenzene | 460-00-4    | 98             | %       | 80-120 | 07.07.17 00.15 |               |      |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-3 3'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-014

Date Collected: 06.30.17 11.30

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.04.17 10.00

Basis: Wet Weight

Seq Number: 3021776

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 34.3       | 15.0  | mg/kg  | 07.04.17 18.31 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 632        | 15.0  | mg/kg  | 07.04.17 18.31 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0      | 15.0  | mg/kg  | 07.04.17 18.31 | U    | 1   |
| Total TPH                         | PHC635     | 666        | 15.0  | mg/kg  | 07.04.17 18.31 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 100        | %     | 70-135 | 07.04.17 18.31 |      |     |
| o-Terphenyl                       | 84-15-1    | 88         | %     | 70-135 | 07.04.17 18.31 |      |     |

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 15.00

Basis: Wet Weight

Seq Number: 3021700

| Parameter            | Cas Number  | Result     | RL      | Units  | Analysis Date  | Flag | Dil |
|----------------------|-------------|------------|---------|--------|----------------|------|-----|
| Benzene              | 71-43-2     | <0.00202   | 0.00202 | mg/kg  | 07.07.17 00.31 | U    | 1   |
| Toluene              | 108-88-3    | <0.00202   | 0.00202 | mg/kg  | 07.07.17 00.31 | U    | 1   |
| Ethylbenzene         | 100-41-4    | <0.00202   | 0.00202 | mg/kg  | 07.07.17 00.31 | U    | 1   |
| m,p-Xylenes          | 179601-23-1 | 0.00563    | 0.00404 | mg/kg  | 07.07.17 00.31 |      | 1   |
| o-Xylene             | 95-47-6     | <0.00202   | 0.00202 | mg/kg  | 07.07.17 00.31 | U    | 1   |
| Total Xylenes        | 1330-20-7   | 0.00563    | 0.00202 | mg/kg  | 07.07.17 00.31 |      | 1   |
| Total BTEX           |             | 0.00563    | 0.00202 | mg/kg  | 07.07.17 00.31 |      | 1   |
| Surrogate            | Cas Number  | % Recovery | Units   | Limits | Analysis Date  | Flag |     |
| 4-Bromofluorobenzene | 460-00-4    | 95         | %       | 80-120 | 07.07.17 00.31 |      |     |
| 1,4-Difluorobenzene  | 540-36-3    | 111        | %       | 80-120 | 07.07.17 00.31 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-3 5'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-015

Date Collected: 06.30.17 11.45

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.04.17 10.00

Basis: Wet Weight

Seq Number: 3021776

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0  | 15.0 | mg/kg | 07.04.17 18.51 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | <15.0  | 15.0 | mg/kg | 07.04.17 18.51 | U    | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0  | 15.0 | mg/kg | 07.04.17 18.51 | U    | 1   |
| Total TPH                         | PHC635     | <15.0  | 15.0 | mg/kg | 07.04.17 18.51 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 110        | %     | 70-135 | 07.04.17 18.51 |      |
| o-Terphenyl    | 84-15-1    | 107        | %     | 70-135 | 07.04.17 18.51 |      |

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.07.17 08.30

Basis: Wet Weight

Seq Number: 3021705

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|---------------|-------------|----------|---------|-------|----------------|------|-----|
| Benzene       | 71-43-2     | <0.00201 | 0.00201 | mg/kg | 07.07.17 12.24 | U    | 1   |
| Toluene       | 108-88-3    | <0.00201 | 0.00201 | mg/kg | 07.07.17 12.24 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00201 | 0.00201 | mg/kg | 07.07.17 12.24 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 07.07.17 12.24 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00201 | 0.00201 | mg/kg | 07.07.17 12.24 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00201 | 0.00201 | mg/kg | 07.07.17 12.24 | U    | 1   |
| Total BTEX    |             | <0.00201 | 0.00201 | mg/kg | 07.07.17 12.24 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 101        | %     | 80-120 | 07.07.17 12.24 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 108        | %     | 80-120 | 07.07.17 12.24 |      |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-3 8'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-016

Date Collected: 06.30.17 12.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MGO

% Moisture:

Analyst: MGO

Date Prep: 07.07.17 16.30

Basis: Wet Weight

Seq Number: 3021783

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 193    | 4.98 | mg/kg | 07.07.17 21.33 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.04.17 10.00

Basis: Wet Weight

Seq Number: 3021776

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 21.3       | 15.0  | mg/kg  | 07.04.17 19.12 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 150        | 15.0  | mg/kg  | 07.04.17 19.12 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0      | 15.0  | mg/kg  | 07.04.17 19.12 | U    | 1   |
| Total TPH                         | PHC635     | 171        | 15.0  | mg/kg  | 07.04.17 19.12 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 114        | %     | 70-135 | 07.04.17 19.12 |      |     |
| o-Terphenyl                       | 84-15-1    | 115        | %     | 70-135 | 07.04.17 19.12 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-3 8'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-016

Date Collected: 06.30.17 12.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 15.00

Basis: Wet Weight

Seq Number: 3021700

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00201          | 0.00201      | mg/kg         | 07.07.17 01.04       | U           | 1   |
| Toluene              | 108-88-3          | <0.00201          | 0.00201      | mg/kg         | 07.07.17 01.04       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00201          | 0.00201      | mg/kg         | 07.07.17 01.04       | U           | 1   |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>0.00858</b>    | 0.00402      | mg/kg         | 07.07.17 01.04       |             | 1   |
| o-Xylene             | 95-47-6           | <0.00201          | 0.00201      | mg/kg         | 07.07.17 01.04       | U           | 1   |
| <b>Total Xylenes</b> | 1330-20-7         | <b>0.00858</b>    | 0.00201      | mg/kg         | 07.07.17 01.04       |             | 1   |
| <b>Total BTEX</b>    |                   | <b>0.00858</b>    | 0.00201      | mg/kg         | 07.07.17 01.04       |             | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 96                | %            | 80-120        | 07.07.17 01.04       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 89                | %            | 80-120        | 07.07.17 01.04       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-4 6"**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-017

Date Collected: 06.30.17 12.15

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MGO

% Moisture:

Analyst: MGO

Date Prep: 07.07.17 16.30

Basis: Wet Weight

Seq Number: 3021783

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 155    | 4.92 | mg/kg | 07.07.17 21.41 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.04.17 10.00

Basis: Wet Weight

Seq Number: 3021776

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 1980       | 74.9  | mg/kg  | 07.05.17 07.33 |      | 5   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 8860       | 74.9  | mg/kg  | 07.05.17 07.33 |      | 5   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 691        | 74.9  | mg/kg  | 07.05.17 07.33 |      | 5   |
| Total TPH                         | PHC635     | 11500      | 74.9  | mg/kg  | 07.05.17 07.33 |      | 5   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 120        | %     | 70-135 | 07.05.17 07.33 |      |     |
| o-Terphenyl                       | 84-15-1    | 103        | %     | 70-135 | 07.05.17 07.33 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-4 6"**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-017

Date Collected: 06.30.17 12.15

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.07.17 08.30

Basis: Wet Weight

Seq Number: 3021705

| Parameter            | Cas Number  | Result     | RL     | Units  | Analysis Date  | Flag | Dil |
|----------------------|-------------|------------|--------|--------|----------------|------|-----|
| Benzene              | 71-43-2     | 0.0590     | 0.0498 | mg/kg  | 07.07.17 17.11 |      | 25  |
| Toluene              | 108-88-3    | 0.387      | 0.0498 | mg/kg  | 07.07.17 17.11 |      | 25  |
| Ethylbenzene         | 100-41-4    | 0.731      | 0.0498 | mg/kg  | 07.07.17 17.11 |      | 25  |
| m,p-Xylenes          | 179601-23-1 | 3.68       | 0.0996 | mg/kg  | 07.07.17 17.11 |      | 25  |
| o-Xylene             | 95-47-6     | 4.19       | 0.0498 | mg/kg  | 07.07.17 17.11 |      | 25  |
| Total Xylenes        | 1330-20-7   | 7.87       | 0.0498 | mg/kg  | 07.07.17 17.11 |      | 25  |
| Total BTEX           |             | 9.05       | 0.0498 | mg/kg  | 07.07.17 17.11 |      | 25  |
| Surrogate            | Cas Number  | % Recovery | Units  | Limits | Analysis Date  | Flag |     |
| 1,4-Difluorobenzene  | 540-36-3    | 84         | %      | 80-120 | 07.07.17 17.11 |      |     |
| 4-Bromofluorobenzene | 460-00-4    | 110        | %      | 80-120 | 07.07.17 17.11 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-4 1'** Matrix: Soil Date Received: 07.03.17 11.55  
Lab Sample Id: 556808-018 Date Collected: 06.30.17 12.20  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MGO % Moisture:  
Analyst: MGO Date Prep: 07.07.17 16.30 Basis: Wet Weight  
Seq Number: 3021783

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 50.8   | 4.96 | mg/kg | 07.07.17 22.04 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 07.04.17 10.00 Basis: Wet Weight  
Seq Number: 3021776

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 2920       | 74.9  | mg/kg  | 07.05.17 07.54 |      | 5   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 5260       | 74.9  | mg/kg  | 07.05.17 07.54 |      | 5   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 368        | 74.9  | mg/kg  | 07.05.17 07.54 |      | 5   |
| Total TPH                         | PHC635     | 8550       | 74.9  | mg/kg  | 07.05.17 07.54 |      | 5   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 105        | %     | 70-135 | 07.05.17 07.54 |      |     |
| o-Terphenyl                       | 84-15-1    | 97         | %     | 70-135 | 07.05.17 07.54 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-4 1'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-018

Date Collected: 06.30.17 12.20

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.07.17 08.30

Basis: Wet Weight

Seq Number: 3021705

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>0.174</b>      | 0.101        | mg/kg         | 07.07.17 17.28       |             | 50  |
| <b>Toluene</b>       | 108-88-3          | <b>2.39</b>       | 0.101        | mg/kg         | 07.07.17 17.28       |             | 50  |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>1.92</b>       | 0.101        | mg/kg         | 07.07.17 17.28       |             | 50  |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>38.8</b>       | 0.202        | mg/kg         | 07.07.17 17.28       |             | 50  |
| <b>o-Xylene</b>      | 95-47-6           | <b>16.0</b>       | 0.101        | mg/kg         | 07.07.17 17.28       |             | 50  |
| <b>Total Xylenes</b> | 1330-20-7         | <b>54.8</b>       | 0.101        | mg/kg         | 07.07.17 17.28       |             | 50  |
| <b>Total BTEX</b>    |                   | <b>59.3</b>       | 0.101        | mg/kg         | 07.07.17 17.28       |             | 50  |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 89                | %            | 80-120        | 07.07.17 17.28       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 115               | %            | 80-120        | 07.07.17 17.28       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-4 3'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-019

Date Collected: 06.30.17 12.30

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.04.17 10.00

Basis: Wet Weight

Seq Number: 3021776

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 415        | 15.0  | mg/kg  | 07.04.17 20.15 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 1160       | 15.0  | mg/kg  | 07.04.17 20.15 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 45.8       | 15.0  | mg/kg  | 07.04.17 20.15 |      | 1   |
| Total TPH                         | PHC635     | 1620       | 15.0  | mg/kg  | 07.04.17 20.15 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 100        | %     | 70-135 | 07.04.17 20.15 |      |     |
| o-Terphenyl                       | 84-15-1    | 82         | %     | 70-135 | 07.04.17 20.15 |      |     |

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.10.17 15.00

Basis: Wet Weight

Seq Number: 3021934

| Parameter            | Cas Number  | Result     | RL     | Units  | Analysis Date  | Flag | Dil |
|----------------------|-------------|------------|--------|--------|----------------|------|-----|
| Benzene              | 71-43-2     | <0.0202    | 0.0202 | mg/kg  | 07.10.17 23.45 | U    | 10  |
| Toluene              | 108-88-3    | 0.599      | 0.0202 | mg/kg  | 07.10.17 23.45 |      | 10  |
| Ethylbenzene         | 100-41-4    | 0.542      | 0.0202 | mg/kg  | 07.10.17 23.45 |      | 10  |
| m,p-Xylenes          | 179601-23-1 | 7.10       | 0.0404 | mg/kg  | 07.10.17 23.45 |      | 10  |
| o-Xylene             | 95-47-6     | 3.18       | 0.0202 | mg/kg  | 07.10.17 23.45 |      | 10  |
| Total Xylenes        | 1330-20-7   | 10.3       | 0.0202 | mg/kg  | 07.10.17 23.45 |      | 10  |
| Total BTEX           |             | 11.4       | 0.0202 | mg/kg  | 07.10.17 23.45 |      | 10  |
| Surrogate            | Cas Number  | % Recovery | Units  | Limits | Analysis Date  | Flag |     |
| 1,4-Difluorobenzene  | 540-36-3    | 97         | %      | 80-120 | 07.10.17 23.45 |      |     |
| 4-Bromofluorobenzene | 460-00-4    | 110        | %      | 80-120 | 07.10.17 23.45 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-4 5'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-020

Date Collected: 06.30.17 12.45

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.04.17 10.00

Basis: Wet Weight

Seq Number: 3021776

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 2740       | 15.0  | mg/kg  | 07.04.17 20.36 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 4310       | 15.0  | mg/kg  | 07.04.17 20.36 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 355        | 15.0  | mg/kg  | 07.04.17 20.36 |      | 1   |
| Total TPH                         | PHC635     | 7410       | 15.0  | mg/kg  | 07.04.17 20.36 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 108        | %     | 70-135 | 07.04.17 20.36 |      |     |
| o-Terphenyl                       | 84-15-1    | 83         | %     | 70-135 | 07.04.17 20.36 |      |     |

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.10.17 18.00

Basis: Wet Weight

Seq Number: 3021965

| Parameter            | Cas Number  | Result     | RL     | Units  | Analysis Date  | Flag | Dil |
|----------------------|-------------|------------|--------|--------|----------------|------|-----|
| Benzene              | 71-43-2     | <0.0199    | 0.0199 | mg/kg  | 07.11.17 14.13 | U    | 10  |
| Toluene              | 108-88-3    | 11.0       | 0.201  | mg/kg  | 07.11.17 00.01 | D    | 100 |
| Ethylbenzene         | 100-41-4    | 11.0       | 0.201  | mg/kg  | 07.11.17 00.01 | D    | 100 |
| m,p-Xylenes          | 179601-23-1 | 74.4       | 0.402  | mg/kg  | 07.11.17 00.01 | D    | 100 |
| o-Xylene             | 95-47-6     | 27.4       | 0.201  | mg/kg  | 07.11.17 00.01 | D    | 100 |
| Total Xylenes        | 1330-20-7   | 102        | 0.201  | mg/kg  | 07.11.17 00.01 |      | 100 |
| Total BTEX           |             | 124        | 0.0199 | mg/kg  | 07.11.17 00.01 |      | 100 |
| Surrogate            | Cas Number  | % Recovery | Units  | Limits | Analysis Date  | Flag |     |
| 4-Bromofluorobenzene | 460-00-4    | 903        | %      | 80-120 | 07.11.17 14.13 | **   |     |
| 1,4-Difluorobenzene  | 540-36-3    | 82         | %      | 80-120 | 07.11.17 14.13 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-4 8'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-021

Date Collected: 06.30.17 13.00

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.04.17 10.00

Basis: Wet Weight

Seq Number: 3021777

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 317        | 15.0  | mg/kg  | 07.04.17 22.23 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 1200       | 15.0  | mg/kg  | 07.04.17 22.23 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 89.1       | 15.0  | mg/kg  | 07.04.17 22.23 |      | 1   |
| Total TPH                         | PHC635     | 1610       | 15.0  | mg/kg  | 07.04.17 22.23 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 110        | %     | 70-135 | 07.04.17 22.23 |      |     |
| o-Terphenyl                       | 84-15-1    | 101        | %     | 70-135 | 07.04.17 22.23 |      |     |

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.10.17 08.00

Basis: Wet Weight

Seq Number: 3021854

| Parameter            | Cas Number  | Result     | RL      | Units  | Analysis Date  | Flag | Dil |
|----------------------|-------------|------------|---------|--------|----------------|------|-----|
| Benzene              | 71-43-2     | <0.00200   | 0.00200 | mg/kg  | 07.10.17 16.11 | U    | 1   |
| Toluene              | 108-88-3    | 0.00305    | 0.00200 | mg/kg  | 07.10.17 16.11 |      | 1   |
| Ethylbenzene         | 100-41-4    | <0.00200   | 0.00200 | mg/kg  | 07.10.17 16.11 | U    | 1   |
| m,p-Xylenes          | 179601-23-1 | 0.116      | 0.00401 | mg/kg  | 07.10.17 16.11 |      | 1   |
| o-Xylene             | 95-47-6     | 0.0859     | 0.00200 | mg/kg  | 07.10.17 16.11 |      | 1   |
| Total Xylenes        | 1330-20-7   | 0.202      | 0.00200 | mg/kg  | 07.10.17 16.11 |      | 1   |
| Total BTEX           |             | 0.205      | 0.00200 | mg/kg  | 07.10.17 16.11 |      | 1   |
| Surrogate            | Cas Number  | % Recovery | Units   | Limits | Analysis Date  | Flag |     |
| 4-Bromofluorobenzene | 460-00-4    | 107        | %       | 80-120 | 07.10.17 16.11 |      |     |
| 1,4-Difluorobenzene  | 540-36-3    | 95         | %       | 80-120 | 07.10.17 16.11 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-4 11'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-022

Date Collected: 06.30.17 13.15

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.04.17 10.00

Basis: Wet Weight

Seq Number: 3021777

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 16.4       | 15.0  | mg/kg  | 07.04.17 23.28 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 130        | 15.0  | mg/kg  | 07.04.17 23.28 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0      | 15.0  | mg/kg  | 07.04.17 23.28 | U    | 1   |
| Total TPH                         | PHC635     | 146        | 15.0  | mg/kg  | 07.04.17 23.28 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 110        | %     | 70-135 | 07.04.17 23.28 |      |     |
| o-Terphenyl                       | 84-15-1    | 109        | %     | 70-135 | 07.04.17 23.28 |      |     |

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 15.00

Basis: Wet Weight

Seq Number: 3021700

| Parameter            | Cas Number  | Result     | RL      | Units  | Analysis Date  | Flag | Dil |
|----------------------|-------------|------------|---------|--------|----------------|------|-----|
| Benzene              | 71-43-2     | <0.00199   | 0.00199 | mg/kg  | 07.07.17 02.08 | U    | 1   |
| Toluene              | 108-88-3    | <0.00199   | 0.00199 | mg/kg  | 07.07.17 02.08 | U    | 1   |
| Ethylbenzene         | 100-41-4    | <0.00199   | 0.00199 | mg/kg  | 07.07.17 02.08 | U    | 1   |
| m,p-Xylenes          | 179601-23-1 | <0.00398   | 0.00398 | mg/kg  | 07.07.17 02.08 | U    | 1   |
| o-Xylene             | 95-47-6     | <0.00199   | 0.00199 | mg/kg  | 07.07.17 02.08 | U    | 1   |
| Total Xylenes        | 1330-20-7   | <0.00199   | 0.00199 | mg/kg  | 07.07.17 02.08 | U    | 1   |
| Total BTEX           |             | <0.00199   | 0.00199 | mg/kg  | 07.07.17 02.08 | U    | 1   |
| Surrogate            | Cas Number  | % Recovery | Units   | Limits | Analysis Date  | Flag |     |
| 1,4-Difluorobenzene  | 540-36-3    | 82         | %       | 80-120 | 07.07.17 02.08 |      |     |
| 4-Bromofluorobenzene | 460-00-4    | 90         | %       | 80-120 | 07.07.17 02.08 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-4 17'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-023

Date Collected: 06.30.17 13.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MGO

% Moisture:

Analyst: MGO

Date Prep: 07.07.17 16.30

Basis: Wet Weight

Seq Number: 3021783

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 7.33   | 4.94 | mg/kg | 07.07.17 22.12 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.04.17 10.00

Basis: Wet Weight

Seq Number: 3021777

| Parameter                         | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|-----------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610            | <15.0             | 15.0         | mg/kg         | 07.04.17 23.49       | U           | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO         | <15.0             | 15.0         | mg/kg         | 07.04.17 23.49       | U           | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835          | <15.0             | 15.0         | mg/kg         | 07.04.17 23.49       | U           | 1   |
| Total TPH                         | PHC635            | <15.0             | 15.0         | mg/kg         | 07.04.17 23.49       | U           | 1   |
| <b>Surrogate</b>                  | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1-Chlorooctane                    | 111-85-3          | 99                | %            | 70-135        | 07.04.17 23.49       |             |     |
| o-Terphenyl                       | 84-15-1           | 100               | %            | 70-135        | 07.04.17 23.49       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **Trench-4 17'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-023

Date Collected: 06.30.17 13.30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 15.00

Basis: Wet Weight

Seq Number: 3021700

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 07.07.17 02.24       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 07.07.17 02.24       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 07.07.17 02.24       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00399          | 0.00399      | mg/kg         | 07.07.17 02.24       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 07.07.17 02.24       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 07.07.17 02.24       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 07.07.17 02.24       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 92                | %            | 80-120        | 07.07.17 02.24       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 91                | %            | 80-120        | 07.07.17 02.24       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **North Trench-1 1'** Matrix: Soil Date Received: 07.03.17 11.55  
Lab Sample Id: 556808-024 Date Collected: 06.30.17 13.35  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MGO % Moisture:  
Analyst: MGO Date Prep: 07.07.17 16.30 Basis: Wet Weight  
Seq Number: 3021783

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 281    | 4.97 | mg/kg | 07.07.17 22.35 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 07.04.17 10.00 Basis: Wet Weight  
Seq Number: 3021777

| Parameter                         | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|-----------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610            | <15.0             | 15.0         | mg/kg         | 07.05.17 00.10       | U           | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO         | <15.0             | 15.0         | mg/kg         | 07.05.17 00.10       | U           | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835          | <15.0             | 15.0         | mg/kg         | 07.05.17 00.10       | U           | 1   |
| Total TPH                         | PHC635            | <15.0             | 15.0         | mg/kg         | 07.05.17 00.10       | U           | 1   |
| <b>Surrogate</b>                  | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1-Chlorooctane                    | 111-85-3          | 95                | %            | 70-135        | 07.05.17 00.10       |             |     |
| o-Terphenyl                       | 84-15-1           | 92                | %            | 70-135        | 07.05.17 00.10       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **North Trench-1 1'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-024

Date Collected: 06.30.17 13.35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 15.00

Basis: Wet Weight

Seq Number: 3021700

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00201          | 0.00201      | mg/kg         | 07.07.17 02.40       | U           | 1   |
| Toluene              | 108-88-3          | <0.00201          | 0.00201      | mg/kg         | 07.07.17 02.40       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00201          | 0.00201      | mg/kg         | 07.07.17 02.40       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00402          | 0.00402      | mg/kg         | 07.07.17 02.40       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00201          | 0.00201      | mg/kg         | 07.07.17 02.40       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00201          | 0.00201      | mg/kg         | 07.07.17 02.40       | U           | 1   |
| Total BTEX           |                   | <0.00201          | 0.00201      | mg/kg         | 07.07.17 02.40       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 87                | %            | 80-120        | 07.07.17 02.40       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 94                | %            | 80-120        | 07.07.17 02.40       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **East Trench-1 1'** Matrix: Soil Date Received: 07.03.17 11.55  
Lab Sample Id: 556808-025 Date Collected: 06.30.17 13.45  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MGO % Moisture:  
Analyst: MGO Date Prep: 07.07.17 16.30 Basis: Wet Weight  
Seq Number: 3021783

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 298    | 4.97 | mg/kg | 07.07.17 22.43 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 07.04.17 10.00 Basis: Wet Weight  
Seq Number: 3021777

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0  | 15.0 | mg/kg | 07.05.17 00.31 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 28.8   | 15.0 | mg/kg | 07.05.17 00.31 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0  | 15.0 | mg/kg | 07.05.17 00.31 | U    | 1   |
| Total TPH                         | PHC635     | 28.8   | 15.0 | mg/kg | 07.05.17 00.31 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 99         | %     | 70-135 | 07.05.17 00.31 |      |
| o-Terphenyl    | 84-15-1    | 98         | %     | 70-135 | 07.05.17 00.31 |      |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **East Trench-1 1'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-025

Date Collected: 06.30.17 13.45

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 15.00

Basis: Wet Weight

Seq Number: 3021700

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 07.07.17 02.56       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 07.07.17 02.56       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 07.07.17 02.56       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00401          | 0.00401      | mg/kg         | 07.07.17 02.56       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 07.07.17 02.56       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 07.07.17 02.56       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 07.07.17 02.56       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 109               | %            | 80-120        | 07.07.17 02.56       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 109               | %            | 80-120        | 07.07.17 02.56       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **South Trench-1 1'** Matrix: Soil Date Received: 07.03.17 11.55  
Lab Sample Id: 556808-026 Date Collected: 06.30.17 13.55  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MGO % Moisture:  
Analyst: MGO Date Prep: 07.07.17 16.30 Basis: Wet Weight  
Seq Number: 3021783

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 38.0   | 4.94 | mg/kg | 07.07.17 22.50 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 07.04.17 10.00 Basis: Wet Weight  
Seq Number: 3021777

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0  | 15.0 | mg/kg | 07.05.17 00.53 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 142    | 15.0 | mg/kg | 07.05.17 00.53 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 25.3   | 15.0 | mg/kg | 07.05.17 00.53 |      | 1   |
| Total TPH                         | PHC635     | 167    | 15.0 | mg/kg | 07.05.17 00.53 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 105        | %     | 70-135 | 07.05.17 00.53 |      |
| o-Terphenyl    | 84-15-1    | 98         | %     | 70-135 | 07.05.17 00.53 |      |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **South Trench-1 1'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-026

Date Collected: 06.30.17 13.55

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.06.17 15.00

Basis: Wet Weight

Seq Number: 3021700

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00198          | 0.00198      | mg/kg         | 07.07.17 03.12       | U           | 1   |
| Toluene              | 108-88-3          | <0.00198          | 0.00198      | mg/kg         | 07.07.17 03.12       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00198          | 0.00198      | mg/kg         | 07.07.17 03.12       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00397          | 0.00397      | mg/kg         | 07.07.17 03.12       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00198          | 0.00198      | mg/kg         | 07.07.17 03.12       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00198          | 0.00198      | mg/kg         | 07.07.17 03.12       | U           | 1   |
| Total BTEX           |                   | <0.00198          | 0.00198      | mg/kg         | 07.07.17 03.12       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 105               | %            | 80-120        | 07.07.17 03.12       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 114               | %            | 80-120        | 07.07.17 03.12       |             |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **WesT Trench-1 1'** Matrix: Soil Date Received: 07.03.17 11.55  
Lab Sample Id: 556808-027 Date Collected: 06.30.17 10.10  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MGO % Moisture:  
Analyst: MGO Date Prep: 07.07.17 16.30 Basis: Wet Weight  
Seq Number: 3021783

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 74.9   | 4.95 | mg/kg | 07.07.17 22.58 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 07.04.17 10.00 Basis: Wet Weight  
Seq Number: 3021777

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 1380       | 15.0  | mg/kg  | 07.05.17 01.14 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 4940       | 15.0  | mg/kg  | 07.05.17 01.14 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 424        | 15.0  | mg/kg  | 07.05.17 01.14 |      | 1   |
| Total TPH                         | PHC635     | 6740       | 15.0  | mg/kg  | 07.05.17 01.14 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 98         | %     | 70-135 | 07.05.17 01.14 |      |     |
| o-Terphenyl                       | 84-15-1    | 82         | %     | 70-135 | 07.05.17 01.14 |      |     |



# Certificate of Analytical Results 556808



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **WesT Trench-1 1'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556808-027

Date Collected: 06.30.17 10.10

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.10.17 18.00

Basis: Wet Weight

Seq Number: 3021965

| Parameter            | Cas Number  | Result     | RL     | Units | Analysis Date  | Flag           | Dil  |
|----------------------|-------------|------------|--------|-------|----------------|----------------|------|
| Benzene              | 71-43-2     | <0.0202    | 0.0202 | mg/kg | 07.11.17 13.56 | U              | 10   |
| Toluene              | 108-88-3    | 0.278      | 0.0202 | mg/kg | 07.11.17 13.56 |                | 10   |
| Ethylbenzene         | 100-41-4    | 0.373      | 0.0202 | mg/kg | 07.11.17 13.56 |                | 10   |
| m,p-Xylenes          | 179601-23-1 | 2.08       | 0.0403 | mg/kg | 07.11.17 13.56 |                | 10   |
| o-Xylene             | 95-47-6     | 2.03       | 0.0202 | mg/kg | 07.11.17 13.56 |                | 10   |
| Total Xylenes        | 1330-20-7   | 4.11       | 0.0202 | mg/kg | 07.11.17 13.56 |                | 10   |
| Total BTEX           |             | 4.76       | 0.0202 | mg/kg | 07.11.17 13.56 |                | 10   |
| Surrogate            | Cas Number  | % Recovery |        | Units | Limits         | Analysis Date  | Flag |
| 1,4-Difluorobenzene  | 540-36-3    | 92         |        | %     | 80-120         | 07.11.17 13.56 |      |
| 4-Bromofluorobenzene | 460-00-4    | 103        |        | %     | 80-120         | 07.11.17 13.56 |      |

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

**MDL** Method Detection Limit      **SDL** Sample Detection Limit      **LOD** Limit of Detection

**PQL** Practical Quantitation Limit      **SQL** Method Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

+ NELAC certification not offered for this compound.

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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## QC Summary 556808

TRC Solutions, Inc  
Gunslinger 11 Federal Com #001H (03/18/17)

**Analytical Method: Chloride by EPA 300**

Seq Number: 3021783

MB Sample Id: 727344-1-BLK

Matrix: Solid

LCS Sample Id: 727344-1-BKS

Prep Method: E300P

Date Prep: 07.07.17

LCSD Sample Id: 727344-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Chloride  | <5.00     | 250          | 254        | 102      | 259         | 104       | 90-110 | 2    | 20        | mg/kg | 07.07.17 19:38 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3021783

Parent Sample Id: 556808-001

Matrix: Soil

MS Sample Id: 556808-001 S

Prep Method: E300P

Date Prep: 07.07.17

MSD Sample Id: 556808-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 13.8          | 246          | 251       | 96      | 262        | 101      | 90-110 | 4    | 20        | mg/kg | 07.07.17 20:01 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3021783

Parent Sample Id: 556808-017

Matrix: Soil

MS Sample Id: 556808-017 S

Prep Method: E300P

Date Prep: 07.07.17

MSD Sample Id: 556808-017 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 155           | 246          | 404       | 101     | 372        | 88       | 90-110 | 8    | 20        | mg/kg | 07.07.17 21:49 | X    |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3021776

MB Sample Id: 727234-1-BLK

Matrix: Solid

LCS Sample Id: 727234-1-BKS

Prep Method: TX1005P

Date Prep: 07.04.17

LCSD Sample Id: 727234-1-BSD

| Parameter                         | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <15.0     | 1000         | 1090       | 109      | 1110        | 111       | 70-135 | 2    | 35        | mg/kg | 07.04.17 11:54 |      |
| Diesel Range Organics (DRO)       | <15.0     | 1000         | 1100       | 110      | 1130        | 113       | 70-135 | 3    | 35        | mg/kg | 07.04.17 11:54 |      |

| Surrogate      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 117     |         | 116      |          | 116       |           | 70-135 | %     | 07.04.17 11:54 |
| o-Terphenyl    | 125     |         | 109      |          | 110       |           | 70-135 | %     | 07.04.17 11:54 |



## QC Summary 556808

### TRC Solutions, Inc

Gunslinger 11 Federal Com #001H (03/18/17)

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3021777

MB Sample Id: 727236-1-BLK

Matrix: Solid

LCS Sample Id: 727236-1-BKS

Prep Method: TX1005P

Date Prep: 07.04.17

LCSD Sample Id: 727236-1-BSD

| Parameter                         | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD  | RPD Limit      | Units | Analysis Date  | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|-------|----------------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <15.0     | 1000         | 983        | 98       | 993         | 99        | 70-135 | 1     | 35             | mg/kg | 07.04.17 21:40 |      |
| Diesel Range Organics (DRO)       | <15.0     | 1000         | 1010       | 101      | 963         | 96        | 70-135 | 5     | 35             | mg/kg | 07.04.17 21:40 |      |
| Surrogate                         | MB %Rec   | MB Flag      | LCS %Rec   | LCS Flag | LCSD %Rec   | LCSD Flag | Limits | Units | Analysis Date  |       |                |      |
| 1-Chlorooctane                    | 110       |              | 100        |          | 102         |           | 70-135 | %     | 07.04.17 21:40 |       |                |      |
| o-Terphenyl                       | 117       |              | 98         |          | 102         |           | 70-135 | %     | 07.04.17 21:40 |       |                |      |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3021776

Parent Sample Id: 556808-001

Matrix: Soil

MS Sample Id: 556808-001 S

Prep Method: TX1005P

Date Prep: 07.04.17

MSD Sample Id: 556808-001 SD

| Parameter                         | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD  | RPD Limit      | Units | Analysis Date  | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|-------|----------------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <15.0         | 999          | 1020      | 102     | 1030       | 103      | 70-135 | 1     | 35             | mg/kg | 07.04.17 12:57 |      |
| Diesel Range Organics (DRO)       | <15.0         | 999          | 987       | 99      | 1020       | 102      | 70-135 | 3     | 35             | mg/kg | 07.04.17 12:57 |      |
| Surrogate                         |               |              | MS %Rec   | MS Flag | MSD %Rec   | MSD Flag | Limits | Units | Analysis Date  |       |                |      |
| 1-Chlorooctane                    |               |              | 111       |         | 112        |          | 70-135 | %     | 07.04.17 12:57 |       |                |      |
| o-Terphenyl                       |               |              | 100       |         | 100        |          | 70-135 | %     | 07.04.17 12:57 |       |                |      |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3021777

Parent Sample Id: 556808-021

Matrix: Soil

MS Sample Id: 556808-021 S

Prep Method: TX1005P

Date Prep: 07.04.17

MSD Sample Id: 556808-021 SD

| Parameter                         | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD  | RPD Limit      | Units | Analysis Date  | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|-------|----------------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | 317           | 998          | 1420      | 111     | 1360       | 104      | 70-135 | 4     | 35             | mg/kg | 07.04.17 22:45 |      |
| Diesel Range Organics (DRO)       | 1200          | 998          | 2350      | 115     | 2210       | 101      | 70-135 | 6     | 35             | mg/kg | 07.04.17 22:45 |      |
| Surrogate                         |               |              | MS %Rec   | MS Flag | MSD %Rec   | MSD Flag | Limits | Units | Analysis Date  |       |                |      |
| 1-Chlorooctane                    |               |              | 115       |         | 104        |          | 70-135 | %     | 07.04.17 22:45 |       |                |      |
| o-Terphenyl                       |               |              | 97        |         | 87         |          | 70-135 | %     | 07.04.17 22:45 |       |                |      |

TRC Solutions, Inc  
Gunslinger 11 Federal Com #001H (03/18/17)

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3021649

MB Sample Id: 727276-1-BLK

Matrix: Solid

LCS Sample Id: 727276-1-BKS

Prep Method: SW5030B

Date Prep: 07.06.17

LCSD Sample Id: 727276-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00201  | 0.100        | 0.118      | 118      | 0.120       | 120       | 70-130 | 2    | 35        | mg/kg | 07.06.17 10:10 |      |
| Toluene      | <0.00201  | 0.100        | 0.108      | 108      | 0.112       | 112       | 70-130 | 4    | 35        | mg/kg | 07.06.17 10:10 |      |
| Ethylbenzene | <0.00201  | 0.100        | 0.108      | 108      | 0.119       | 119       | 71-129 | 10   | 35        | mg/kg | 07.06.17 10:10 |      |
| m,p-Xylenes  | <0.00402  | 0.201        | 0.200      | 100      | 0.215       | 108       | 70-135 | 7    | 35        | mg/kg | 07.06.17 10:10 |      |
| o-Xylene     | <0.00201  | 0.100        | 0.111      | 111      | 0.115       | 115       | 71-133 | 4    | 35        | mg/kg | 07.06.17 10:10 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 103     |         | 97       |          | 98        |           | 80-120 | %     | 07.06.17 10:10 |
| 4-Bromofluorobenzene | 92      |         | 97       |          | 110       |           | 80-120 | %     | 07.06.17 10:10 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3021700

MB Sample Id: 727313-1-BLK

Matrix: Solid

LCS Sample Id: 727313-1-BKS

Prep Method: SW5030B

Date Prep: 07.06.17

LCSD Sample Id: 727313-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00202  | 0.101        | 0.125      | 124      | 0.101       | 101       | 70-130 | 21   | 35        | mg/kg | 07.06.17 21:17 |      |
| Toluene      | <0.00202  | 0.101        | 0.117      | 116      | 0.0917      | 92        | 70-130 | 24   | 35        | mg/kg | 07.06.17 21:17 |      |
| Ethylbenzene | <0.00202  | 0.101        | 0.115      | 114      | 0.0947      | 95        | 71-129 | 19   | 35        | mg/kg | 07.06.17 21:17 |      |
| m,p-Xylenes  | <0.00403  | 0.202        | 0.207      | 102      | 0.170       | 85        | 70-135 | 20   | 35        | mg/kg | 07.06.17 21:17 |      |
| o-Xylene     | <0.00202  | 0.101        | 0.111      | 110      | 0.0936      | 94        | 71-133 | 17   | 35        | mg/kg | 07.06.17 21:17 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 96      |         | 87       |          | 95        |           | 80-120 | %     | 07.06.17 21:17 |
| 4-Bromofluorobenzene | 111     |         | 86       |          | 91        |           | 80-120 | %     | 07.06.17 21:17 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3021705

MB Sample Id: 727314-1-BLK

Matrix: Solid

LCS Sample Id: 727314-1-BKS

Prep Method: SW5030B

Date Prep: 07.07.17

LCSD Sample Id: 727314-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00202  | 0.101        | 0.117      | 116      | 0.116       | 115       | 70-130 | 1    | 35        | mg/kg | 07.07.17 08:50 |      |
| Toluene      | <0.00202  | 0.101        | 0.107      | 106      | 0.103       | 102       | 70-130 | 4    | 35        | mg/kg | 07.07.17 08:50 |      |
| Ethylbenzene | <0.00202  | 0.101        | 0.111      | 110      | 0.112       | 111       | 71-129 | 1    | 35        | mg/kg | 07.07.17 08:50 |      |
| m,p-Xylenes  | <0.00404  | 0.202        | 0.196      | 97       | 0.199       | 99        | 70-135 | 2    | 35        | mg/kg | 07.07.17 08:50 |      |
| o-Xylene     | <0.00202  | 0.101        | 0.104      | 103      | 0.108       | 107       | 71-133 | 4    | 35        | mg/kg | 07.07.17 08:50 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 103     |         | 88       |          | 94        |           | 80-120 | %     | 07.07.17 08:50 |
| 4-Bromofluorobenzene | 106     |         | 115      |          | 99        |           | 80-120 | %     | 07.07.17 08:50 |

TRC Solutions, Inc  
Gunslinger 11 Federal Com #001H (03/18/17)

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3021854

MB Sample Id: 727410-1-BLK

Matrix: Solid

LCS Sample Id: 727410-1-BKS

Prep Method: SW5030B

Date Prep: 07.10.17

LCSD Sample Id: 727410-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00201  | 0.101        | 0.109      | 108      | 0.114       | 114       | 70-130 | 4    | 35        | mg/kg | 07.10.17 07:26 |      |
| Toluene      | <0.00201  | 0.101        | 0.0959     | 95       | 0.105       | 105       | 70-130 | 9    | 35        | mg/kg | 07.10.17 07:26 |      |
| Ethylbenzene | <0.00201  | 0.101        | 0.103      | 102      | 0.103       | 103       | 71-129 | 0    | 35        | mg/kg | 07.10.17 07:26 |      |
| m,p-Xylenes  | <0.00402  | 0.201        | 0.181      | 90       | 0.185       | 92        | 70-135 | 2    | 35        | mg/kg | 07.10.17 07:26 |      |
| o-Xylene     | <0.00201  | 0.101        | 0.104      | 103      | 0.100       | 100       | 71-133 | 4    | 35        | mg/kg | 07.10.17 07:26 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 101     |         | 86       |          | 85        |           | 80-120 | %     | 07.10.17 07:26 |
| 4-Bromofluorobenzene | 96      |         | 101      |          | 87        |           | 80-120 | %     | 07.10.17 07:26 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3021934

MB Sample Id: 727453-1-BLK

Matrix: Solid

LCS Sample Id: 727453-1-BKS

Prep Method: SW5030B

Date Prep: 07.10.17

LCSD Sample Id: 727453-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00200  | 0.0998       | 0.121      | 121      | 0.113       | 113       | 70-130 | 7    | 35        | mg/kg | 07.10.17 16:43 |      |
| Toluene      | <0.00200  | 0.0998       | 0.117      | 117      | 0.105       | 105       | 70-130 | 11   | 35        | mg/kg | 07.10.17 16:43 |      |
| Ethylbenzene | <0.00200  | 0.0998       | 0.120      | 120      | 0.109       | 109       | 71-129 | 10   | 35        | mg/kg | 07.10.17 16:43 |      |
| m,p-Xylenes  | <0.00399  | 0.200        | 0.210      | 105      | 0.191       | 95        | 70-135 | 9    | 35        | mg/kg | 07.10.17 16:43 |      |
| o-Xylene     | <0.00200  | 0.0998       | 0.117      | 117      | 0.102       | 102       | 71-133 | 14   | 35        | mg/kg | 07.10.17 16:43 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 88      |         | 94       |          | 87        |           | 80-120 | %     | 07.10.17 16:43 |
| 4-Bromofluorobenzene | 85      |         | 89       |          | 90        |           | 80-120 | %     | 07.10.17 16:43 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3021965

MB Sample Id: 727471-1-BLK

Matrix: Solid

LCS Sample Id: 727471-1-BKS

Prep Method: SW5030B

Date Prep: 07.10.17

LCSD Sample Id: 727471-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00199  | 0.0994       | 0.0970     | 98       | 0.123       | 123       | 70-130 | 24   | 35        | mg/kg | 07.11.17 01:06 |      |
| Toluene      | <0.00199  | 0.0994       | 0.0865     | 87       | 0.115       | 115       | 70-130 | 28   | 35        | mg/kg | 07.11.17 01:06 |      |
| Ethylbenzene | <0.00199  | 0.0994       | 0.0941     | 95       | 0.121       | 121       | 71-129 | 25   | 35        | mg/kg | 07.11.17 01:06 |      |
| m,p-Xylenes  | <0.00398  | 0.199        | 0.166      | 83       | 0.210       | 105       | 70-135 | 23   | 35        | mg/kg | 07.11.17 01:06 |      |
| o-Xylene     | <0.00199  | 0.0994       | 0.0979     | 98       | 0.111       | 111       | 71-133 | 13   | 35        | mg/kg | 07.11.17 01:06 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 89      |         | 84       |          | 106       |           | 80-120 | %     | 07.11.17 01:06 |
| 4-Bromofluorobenzene | 96      |         | 93       |          | 97        |           | 80-120 | %     | 07.11.17 01:06 |



## QC Summary 556808

TRC Solutions, Inc  
Gunslinger 11 Federal Com #001H (03/18/17)

**Analytical Method: BTEX by EPA 8021B**

Seq Number: 3021649

Parent Sample Id: 556732-001

Matrix: Soil

MS Sample Id: 556732-001 S

Prep Method: SW5030B

Date Prep: 07.06.17

MSD Sample Id: 556732-001 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00199      | 0.0996       | 0.114     | 114     | 0.109      | 109      | 70-130 | 4    | 35        | mg/kg | 07.06.17 10:56 |      |
| Toluene      | <0.00199      | 0.0996       | 0.106     | 106     | 0.0958     | 96       | 70-130 | 10   | 35        | mg/kg | 07.06.17 10:56 |      |
| Ethylbenzene | <0.00199      | 0.0996       | 0.102     | 102     | 0.0947     | 95       | 71-129 | 7    | 35        | mg/kg | 07.06.17 10:56 |      |
| m,p-Xylenes  | <0.00398      | 0.199        | 0.182     | 91      | 0.171      | 86       | 70-135 | 6    | 35        | mg/kg | 07.06.17 10:56 |      |
| o-Xylene     | <0.00199      | 0.0996       | 0.0991    | 99      | 0.0915     | 92       | 71-133 | 8    | 35        | mg/kg | 07.06.17 10:56 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 110     |         | 98       |          | 80-120 | %     | 07.06.17 10:56 |
| 4-Bromofluorobenzene | 118     |         | 95       |          | 80-120 | %     | 07.06.17 10:56 |

**Analytical Method: BTEX by EPA 8021B**

Seq Number: 3021700

Parent Sample Id: 556808-007

Matrix: Soil

MS Sample Id: 556808-007 S

Prep Method: SW5030B

Date Prep: 07.06.17

MSD Sample Id: 556808-007 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00200      | 0.0998       | 0.112     | 112     | 0.110      | 110      | 70-130 | 2    | 35        | mg/kg | 07.06.17 21:49 |      |
| Toluene      | <0.00200      | 0.0998       | 0.0954    | 96      | 0.0886     | 89       | 70-130 | 7    | 35        | mg/kg | 07.06.17 21:49 |      |
| Ethylbenzene | <0.00200      | 0.0998       | 0.0902    | 90      | 0.0861     | 86       | 71-129 | 5    | 35        | mg/kg | 07.06.17 21:49 |      |
| m,p-Xylenes  | <0.00399      | 0.200        | 0.156     | 78      | 0.152      | 76       | 70-135 | 3    | 35        | mg/kg | 07.06.17 21:49 |      |
| o-Xylene     | <0.00200      | 0.0998       | 0.0907    | 91      | 0.0801     | 80       | 71-133 | 12   | 35        | mg/kg | 07.06.17 21:49 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 88      |         | 107      |          | 80-120 | %     | 07.06.17 21:49 |
| 4-Bromofluorobenzene | 118     |         | 101      |          | 80-120 | %     | 07.06.17 21:49 |

**Analytical Method: BTEX by EPA 8021B**

Seq Number: 3021705

Parent Sample Id: 556810-012

Matrix: Soil

MS Sample Id: 556810-012 S

Prep Method: SW5030B

Date Prep: 07.07.17

MSD Sample Id: 556810-012 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00200      | 0.0998       | 0.101     | 101     | 0.121      | 121      | 70-130 | 18   | 35        | mg/kg | 07.07.17 09:23 |      |
| Toluene      | <0.00200      | 0.0998       | 0.0966    | 97      | 0.114      | 114      | 70-130 | 17   | 35        | mg/kg | 07.07.17 09:23 |      |
| Ethylbenzene | <0.00200      | 0.0998       | 0.0958    | 96      | 0.110      | 110      | 71-129 | 14   | 35        | mg/kg | 07.07.17 09:23 |      |
| m,p-Xylenes  | <0.00399      | 0.200        | 0.168     | 84      | 0.194      | 97       | 70-135 | 14   | 35        | mg/kg | 07.07.17 09:23 |      |
| o-Xylene     | <0.00200      | 0.0998       | 0.0870    | 87      | 0.106      | 106      | 71-133 | 20   | 35        | mg/kg | 07.07.17 09:23 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 95      |         | 98       |          | 80-120 | %     | 07.07.17 09:23 |
| 4-Bromofluorobenzene | 98      |         | 98       |          | 80-120 | %     | 07.07.17 09:23 |



# QC Summary 556808

TRC Solutions, Inc  
Gunslinger 11 Federal Com #001H (03/18/17)

**Analytical Method: BTEX by EPA 8021B**

Seq Number: 3021854

Parent Sample Id: 556914-001

Matrix: Soil

MS Sample Id: 556914-001 S

Prep Method: SW5030B

Date Prep: 07.10.17

MSD Sample Id: 556914-001 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00200      | 0.0998       | 0.106     | 106     | 0.102      | 102      | 70-130 | 4    | 35        | mg/kg | 07.10.17 08:04 |      |
| Toluene      | <0.00200      | 0.0998       | 0.0863    | 86      | 0.0932     | 93       | 70-130 | 8    | 35        | mg/kg | 07.10.17 08:04 |      |
| Ethylbenzene | <0.00200      | 0.0998       | 0.0928    | 93      | 0.0971     | 97       | 71-129 | 5    | 35        | mg/kg | 07.10.17 08:04 |      |
| m,p-Xylenes  | <0.00399      | 0.200        | 0.162     | 81      | 0.167      | 84       | 70-135 | 3    | 35        | mg/kg | 07.10.17 08:04 |      |
| o-Xylene     | <0.00200      | 0.0998       | 0.0860    | 86      | 0.0965     | 97       | 71-133 | 12   | 35        | mg/kg | 07.10.17 08:04 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 112     |         | 98       |          | 80-120 | %     | 07.10.17 08:04 |
| 4-Bromofluorobenzene | 106     |         | 108      |          | 80-120 | %     | 07.10.17 08:04 |

**Analytical Method: BTEX by EPA 8021B**

Seq Number: 3021934

Parent Sample Id: 556932-002

Matrix: Soil

MS Sample Id: 556932-002 S

Prep Method: SW5030B

Date Prep: 07.10.17

MSD Sample Id: 556932-002 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00199      | 0.0996       | 0.0935    | 94      | 0.102      | 102      | 70-130 | 9    | 35        | mg/kg | 07.10.17 17:16 |      |
| Toluene      | <0.00199      | 0.0996       | 0.0778    | 78      | 0.0893     | 89       | 70-130 | 14   | 35        | mg/kg | 07.10.17 17:16 |      |
| Ethylbenzene | <0.00199      | 0.0996       | 0.0848    | 85      | 0.0940     | 94       | 71-129 | 10   | 35        | mg/kg | 07.10.17 17:16 |      |
| m,p-Xylenes  | <0.00398      | 0.199        | 0.142     | 71      | 0.162      | 81       | 70-135 | 13   | 35        | mg/kg | 07.10.17 17:16 |      |
| o-Xylene     | <0.00199      | 0.0996       | 0.0823    | 83      | 0.0874     | 88       | 71-133 | 6    | 35        | mg/kg | 07.10.17 17:16 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 109     |         | 103      |          | 80-120 | %     | 07.10.17 17:16 |
| 4-Bromofluorobenzene | 119     |         | 111      |          | 80-120 | %     | 07.10.17 17:16 |

**Analytical Method: BTEX by EPA 8021B**

Seq Number: 3021965

Parent Sample Id: 556811-001

Matrix: Soil

MS Sample Id: 556811-001 S

Prep Method: SW5030B

Date Prep: 07.10.17

MSD Sample Id: 556811-001 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00200      | 0.100        | 0.109     | 109     | 0.103      | 103      | 70-130 | 6    | 35        | mg/kg | 07.11.17 11:14 |      |
| Toluene      | <0.00200      | 0.100        | 0.0984    | 98      | 0.0907     | 91       | 70-130 | 8    | 35        | mg/kg | 07.11.17 11:14 |      |
| Ethylbenzene | <0.00200      | 0.100        | 0.102     | 102     | 0.0879     | 88       | 71-129 | 15   | 35        | mg/kg | 07.11.17 11:14 |      |
| m,p-Xylenes  | 0.0181        | 0.200        | 0.182     | 82      | 0.185      | 83       | 70-135 | 2    | 35        | mg/kg | 07.11.17 11:14 |      |
| o-Xylene     | <0.00200      | 0.100        | 0.101     | 101     | 0.0933     | 93       | 71-133 | 8    | 35        | mg/kg | 07.11.17 11:14 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 88      |         | 98       |          | 80-120 | %     | 07.11.17 11:14 |
| 4-Bromofluorobenzene | 98      |         | 103      |          | 80-120 | %     | 07.11.17 11:14 |



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Dallas, Texas (214-902-0300)

# CHAIN OF CUSTODY

Page 1 OF 3

San Antonio, Texas (210-509-3334)  
Midland, Texas (432-704-5251)

Phoenix, Arizona (480-355-0900)

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Xenco Quote #

Xenco Job #

556809

Matrix Codes

W = Water  
S = Soil/Sed/Solid  
GW = Ground Water  
DW = Drinking Water  
P = Product  
SW = Surface water  
SL = Sludge  
OW = Ocean/Sea Water  
WI = Wipe  
O = Oil  
WW = Waste Water  
A = Air

## Client / Reporting Information

Company Name / Branch:

TRC

Company Address:

2057 Commerce Drive

Midland, Texas 79703

Email:

ngreen@trcsolutions.com

Project Contact:

Nikki Green

Samplers Name: Nikki Green

## Project Information

Project Name/Number:

Gunslinger 11 Federal Com #001H (3/18/17)

Project Location:

Lea County, NM

Invoice To:

Rebecca Haskell with COG Operating LLC rhaskell@concho.com

600 W Illinois Avenue | Midland, TX 79701

Direct: 432-818-2372 | Main: 432-683-7443

PO Number:

## No. Field ID / Point of Collection

| No. | Field ID / Point of Collection | Collection   |        | Matrix | # of bottles | Number of preserved bottles |                 |      |       |      |        |      | TPH 8015M EXT 36 | BTEX 8021B | Chloride E300.0 | Analytical Information |  | Matrix Codes |  |
|-----|--------------------------------|--------------|--------|--------|--------------|-----------------------------|-----------------|------|-------|------|--------|------|------------------|------------|-----------------|------------------------|--|--------------|--|
|     |                                | Sample Depth | Date   | Time   |              | HCl                         | NaOH/Zn Acetate | HNO3 | H2SO4 | NaOH | NaHSO4 | MeOH |                  |            |                 |                        |  |              |  |
| 1   | OS-1 3"                        |              | 30-Jun | 850    | S            | 1                           |                 |      |       |      |        |      | X                | X          | X               |                        |  |              |  |
| 2   | OS-2 3"                        |              | 30-Jun | 855    | S            | 1                           |                 |      |       |      |        |      | X                | X          | X               |                        |  |              |  |
| 3   | Trench-1 1'                    |              | 30-Jun | 900    | S            | 1                           |                 |      |       |      |        |      | X                | X          | X               |                        |  |              |  |
| 4   | Trench-1 3'                    |              | 30-Jun | 915    | S            | 1                           |                 |      |       |      |        |      | X                | X          | X               |                        |  |              |  |
| 5   | Trench-1 5'                    |              | 30-Jun | 930    | S            | 1                           |                 |      |       |      |        |      | X                | X          | X               |                        |  |              |  |
| 6   | Trench-1 8'                    |              | 30-Jun | 945    | S            | 1                           |                 |      |       |      |        |      | X                | X          | X               |                        |  |              |  |
| 7   | Trench-2 6"                    |              | 30-Jun | 1000   | S            | 1                           |                 |      |       |      |        |      | X                | X          | X               |                        |  |              |  |
| 8   | Trench-2 1'                    |              | 30-Jun | 1020   | S            | 1                           |                 |      |       |      |        |      | X                | X          | X               |                        |  |              |  |
| 9   | Trench-2 3'                    |              | 30-Jun | 1030   | S            | 1                           |                 |      |       |      |        |      | X                | X          | X               |                        |  |              |  |
| 10  | Trench-2 5'                    |              | 30-Jun | 1045   | S            | 1                           |                 |      |       |      |        |      | X                | X          | X               |                        |  |              |  |

## Data Deliverable Information

Notes:

Call with verbals for soil sample West Trench-1 2'

|                                             |                                                  |                                                     |                                                            |
|---------------------------------------------|--------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------|
| <input type="checkbox"/> Same Day TAT       | <input type="checkbox"/> 5 Day TAT               | <input checked="" type="checkbox"/> Level II Std QC | <input type="checkbox"/> Level IV (Full Data Pkg raw data) |
| <input type="checkbox"/> Next Day EMERGENCY | <input type="checkbox"/> 7 Day TAT               | <input type="checkbox"/> Level III Std QC+ Forms    | <input type="checkbox"/> TRRP Level IV                     |
| <input type="checkbox"/> 2 Day EMERGENCY    | <input checked="" type="checkbox"/> Contract TAT | <input type="checkbox"/> Level 3 (CLP Forms)        | <input type="checkbox"/> UST / RG-411                      |
| <input type="checkbox"/> 3 Day EMERGENCY    |                                                  | <input type="checkbox"/> TRRP Checklist             |                                                            |

Temp: 5.1  
CF: (0-6: -0.2°C)  
(6-23: +0.2°C)  
Corrected Temp: 4.9  
IR ID: R-8

TAT Starts Day received by Lab, if received by 5:00 pm

FED-EX / UPS: Trackin

Temp: 5.1  
CF: (0-6: -0.2°C)  
(6-23: +0.2°C)  
Corrected Temp: 4.9  
IR ID: R-8

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

Relinquished by Sample

Date Time:

7/3/17 11:59

Received By:

RECEIVED

Relinquished By:

Date Time:

2

Received By:

4

Relinquished by:

Date Time:

3

Received By:

4

Relinquished By:

Date Time:

4

Relinquished by:

Date Time:

5

Received By:

4

Relinquished By:

Date Time:

4

Received By:

4

On Ice

Cooler Temp.

Thermo. Corr. Factor

Notice: Notice of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.



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# CHAIN OF CUSTODY

Page 2 Of 3

San Antonio, Texas (210-509-3334)  
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Phoenix, Arizona (480-355-0900)

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Xenco Job #

556808

Matrix Codes

W = Water  
S = Soil/Sed/Solid  
GW = Ground Water  
DW = Drinking Water  
P = Product  
SW = Surface water  
SL = Sludge  
OW = Ocean/Sea Water  
WI = Wipe  
O = Oil  
WW = Waste Water  
A = Air

Field Comments

## Project Information

|                        |                                             |                      |                                                                                                                                                     |
|------------------------|---------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Company Name / Branch: | TRC                                         | Project Name/Number: | Gunslinger 11 Federal Com #001H (3/18/17)                                                                                                           |
| Company Address:       | 2057 Commerce Drive<br>Midland, Texas 79703 | Project Location:    | Lea County, NM                                                                                                                                      |
| Email:                 | ngreen@trcsolutions.com                     | Invoice To:          | Rebecca Haskell with COG Operating LLC rhaskell@xenco.com<br>600 W Illinois Avenue   Midland, TX 79701<br>Direct: 432-818-2372   Main: 432-683,7443 |
| Phone No:              | 432-664-6699                                | PO Number:           |                                                                                                                                                     |
| Project Contact:       | NIKKI Green                                 |                      |                                                                                                                                                     |
| Sampler's Name:        | NIKKI Green                                 |                      |                                                                                                                                                     |

| No. | Field ID / Point of Collection | Collection   |        | Matrix | # of bottles | Number of preserved bottles |      |       |      |        |      |      | TPH 8015M EXT 36 | BTEX 8021B | Chloride E300.0 | Analytical Information | Matrix Codes |
|-----|--------------------------------|--------------|--------|--------|--------------|-----------------------------|------|-------|------|--------|------|------|------------------|------------|-----------------|------------------------|--------------|
|     |                                | Sample Depth | Date   | Time   |              | NaOH/Zn Acetate             | HNO3 | H2SO4 | NaOH | NaHSO4 | MEOH | NONE |                  |            |                 |                        |              |
| 1   | Trench-2 8'                    |              | 30-Jun | 1100   | S            | 1                           |      |       |      |        |      |      | X                | X          | X               |                        |              |
| 2   | Trench-3 6"                    |              | 30-Jun | 1115   | S            | 1                           |      |       |      |        |      |      | X                | X          | X               |                        |              |
| 3   | Trench-3 1'                    |              | 30-Jun | 1120   | S            | 1                           |      |       |      |        |      |      | X                | X          | X               |                        |              |
| 4   | Trench-3 3'                    |              | 30-Jun | 1130   | S            | 1                           |      |       |      |        |      |      | X                | X          | X               |                        |              |
| 5   | Trench-3 5'                    |              | 30-Jun | 1145   | S            | 1                           |      |       |      |        |      |      | X                | X          | X               |                        |              |
| 6   | Trench-3 8'                    |              | 30-Jun | 1200   | S            | 1                           |      |       |      |        |      |      | X                | X          | X               |                        |              |
| 7   | Trench-4 6"                    |              | 30-Jun | 1215   | S            | 1                           |      |       |      |        |      |      | X                | X          | X               |                        |              |
| 8   | Trench-4 1'                    |              | 30-Jun | 1220   | S            | 1                           |      |       |      |        |      |      | X                | X          | X               |                        |              |
| 9   | Trench-4 3'                    |              | 30-Jun | 1230   | S            | 1                           |      |       |      |        |      |      | X                | X          | X               |                        |              |
| 10  | Trench-4 5'                    |              | 30-Jun | 1245   | S            | 1                           |      |       |      |        |      |      | X                | X          | X               |                        |              |

## Data Deliverable Information

Notes:

|                                             |                                                  |                                                     |                                                              |                     |            |
|---------------------------------------------|--------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------|---------------------|------------|
| <input type="checkbox"/> Same Day TAT       | <input type="checkbox"/> 5 Day TAT               | <input checked="" type="checkbox"/> Level II Std QC | <input type="checkbox"/> Level IV (Full Data Pkg / raw data) | Temp: 5.1           | IR ID: R-8 |
| <input type="checkbox"/> Next Day EMERGENCY | <input type="checkbox"/> 7 Day TAT               | <input type="checkbox"/> Level III Std QC+ Forms    | <input type="checkbox"/> TRRP Level IV                       | CF: (0-6: -0.2°C)   |            |
| <input type="checkbox"/> 2 Day EMERGENCY    | <input checked="" type="checkbox"/> Contract TAT | <input type="checkbox"/> Level 3 (CLP Forms)        | <input type="checkbox"/> UST / RG-411                        | Corrected Temp: 4.9 |            |
| <input type="checkbox"/> 3 Day EMERGENCY    |                                                  | <input type="checkbox"/> TRRP Checklist             |                                                              |                     |            |

TAT Starts Day received by Lab, if received by 5:00 pm

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

FED-EX / UPS: Tracking #

|                           |               |                           |               |                           |               |                           |               |
|---------------------------|---------------|---------------------------|---------------|---------------------------|---------------|---------------------------|---------------|
| Relinquished by Supplier: | Date Time:    | Received By:              | Date Time:    | Relinquished By:          | Date Time:    | Received By:              | Date Time:    |
| 1. <i>NIKKI Green</i>     | 7/31/17 11:55 | 1. <i>REBECCA HASKELL</i> | 7/31/17 11:55 | 2. <i>REBECCA HASKELL</i> | 7/31/17 11:55 | 2. <i>REBECCA HASKELL</i> | 7/31/17 11:55 |
| Relinquished by:          | Date Time:    | Received By:              | Date Time:    | Relinquished By:          | Date Time:    | Received By:              | Date Time:    |
| 3. <i>NIKKI Green</i>     | 7/31/17 11:55 | 3. <i>REBECCA HASKELL</i> | 7/31/17 11:55 | 4. <i>REBECCA HASKELL</i> | 7/31/17 11:55 | 4. <i>REBECCA HASKELL</i> | 7/31/17 11:55 |
| Relinquished by:          | Date Time:    | Received By:              | Date Time:    | Relinquished By:          | Date Time:    | Received By:              | Date Time:    |
| 5. <i>NIKKI Green</i>     | 7/31/17 11:55 | 5. <i>REBECCA HASKELL</i> | 7/31/17 11:55 | 6. <i>REBECCA HASKELL</i> | 7/31/17 11:55 | 6. <i>REBECCA HASKELL</i> | 7/31/17 11:55 |

Preserved where applicable

On Ice

Cooler Temp.

Thermo, Corr. Factor

Notice: Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

## CHAIN OF CUSTODY

Page 3 Of 3

## Setting the Standard since 1990

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Phoenix, Arizona (480-355-0900)

Xenco Quote #

Xenco Job #

556803

### Matrix Codes

**W = Water**

S = Soil/Sed/Solid

DW = Drinking Water

P = Product

SW = Surface water

SL = Sludge

WI = Wide

$$\|0\|$$

WW= Waste Water

 $A = A_{\text{air}}$ 

Field Comments

[illegible]



**XENCO Laboratories**  
**Prelogin/Nonconformance Report- Sample Log-In**



**Client:** TRC Solutions, Inc

**Date/ Time Received:** 07/03/2017 11:55:00 AM

**Work Order #:** 556808

**Acceptable Temperature Range:** 0 - 6 degC

**Air and Metal samples Acceptable Range:** Ambient

**Temperature Measuring device used :** R8

| Sample Receipt Checklist                                   | Comments |
|------------------------------------------------------------|----------|
| #1 *Temperature of cooler(s)?                              | 4.9      |
| #2 *Shipping container in good condition?                  | Yes      |
| #3 *Samples received on ice?                               | Yes      |
| #4 *Custody Seal present on shipping container/ cooler?    | N/A      |
| #5 *Custody Seals intact on shipping container/ cooler?    | N/A      |
| #6 Custody Seals intact on sample bottles?                 | N/A      |
| #7 *Custody Seals Signed and dated?                        | N/A      |
| #8 *Chain of Custody present?                              | Yes      |
| #9 Sample instructions complete on Chain of Custody?       | Yes      |
| #10 Any missing/extra samples?                             | No       |
| #11 Chain of Custody signed when relinquished/ received?   | Yes      |
| #12 Chain of Custody agrees with sample label(s)?          | Yes      |
| #13 Container label(s) legible and intact?                 | Yes      |
| #14 Sample matrix/ properties agree with Chain of Custody? | Yes      |
| #15 Samples in proper container/ bottle?                   | Yes      |
| #16 Samples properly preserved?                            | Yes      |
| #17 Sample container(s) intact?                            | Yes      |
| #18 Sufficient sample amount for indicated test(s)?        | Yes      |
| #19 All samples received within hold time?                 | Yes      |
| #20 Subcontract of sample(s)?                              | No       |
| #21 VOC samples have zero headspace?                       | N/A      |

**\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

|                                |                                         |                         |
|--------------------------------|-----------------------------------------|-------------------------|
| <b>Checklist completed by:</b> | <u>Jessica Kramer</u><br>Jessica Kramer | Date: <u>07/03/2017</u> |
| <b>Checklist reviewed by:</b>  | <u>Kelsey Brooks</u><br>Kelsey Brooks   | Date: <u>07/03/2017</u> |



# Certificate of Analysis Summary 556809

TRC Solutions, Inc, Midland, TX

Project Name: Gunslinger 11 Federal Com #001H (03/18/17)



Project Id:

Contact: Nikki Green

Project Location: Lea Co NM

Date Received in Lab: Mon Jul-03-17 11:55 am

Report Date: 18-JUL-17

Project Manager: Kelsey Brooks

|                            |                                   |                  |  |  |  |  |  |
|----------------------------|-----------------------------------|------------------|--|--|--|--|--|
| <b>Analysis Requested</b>  | <b>Lab Id:</b>                    | 556809-001       |  |  |  |  |  |
|                            | <b>Field Id:</b>                  | West Trench-1 3' |  |  |  |  |  |
|                            | <b>Depth:</b>                     |                  |  |  |  |  |  |
|                            | <b>Matrix:</b>                    | SOIL             |  |  |  |  |  |
|                            | <b>Sampled:</b>                   | Jun-30-17 10:25  |  |  |  |  |  |
| <b>BTEX by EPA 8021B</b>   | <b>Extracted:</b>                 | Jul-12-17 13:00  |  |  |  |  |  |
|                            | <b>Analyzed:</b>                  | Jul-12-17 19:39  |  |  |  |  |  |
|                            | <b>Units/RL:</b>                  | mg/kg RL         |  |  |  |  |  |
|                            | Benzene                           | 0.660 0.201      |  |  |  |  |  |
|                            | Toluene                           | 26.5 0.201       |  |  |  |  |  |
|                            | Ethylbenzene                      | 11.8 0.201       |  |  |  |  |  |
|                            | m,p-Xylenes                       | 80.5 0.402       |  |  |  |  |  |
|                            | o-Xylene                          | 36.6 0.201       |  |  |  |  |  |
|                            | Total Xylenes                     | 117 0.201        |  |  |  |  |  |
|                            | Total BTEX                        | 156 0.201        |  |  |  |  |  |
| <b>Chloride by EPA 300</b> | <b>Extracted:</b>                 | Jul-14-17 15:00  |  |  |  |  |  |
|                            | <b>Analyzed:</b>                  | Jul-14-17 19:35  |  |  |  |  |  |
|                            | <b>Units/RL:</b>                  | mg/kg RL         |  |  |  |  |  |
|                            | Chloride                          | 78.4 4.99        |  |  |  |  |  |
| <b>TPH by SW8015 Mod</b>   | <b>Extracted:</b>                 | Jul-12-17 14:00  |  |  |  |  |  |
|                            | <b>Analyzed:</b>                  | Jul-12-17 16:11  |  |  |  |  |  |
|                            | <b>Units/RL:</b>                  | mg/kg RL         |  |  |  |  |  |
|                            | Gasoline Range Hydrocarbons (GRO) | 5690 74.9        |  |  |  |  |  |
|                            | Diesel Range Organics (DRO)       | 7230 74.9        |  |  |  |  |  |
|                            | Oil Range Hydrocarbons (ORO)      | 311 74.9         |  |  |  |  |  |
|                            | Total TPH                         | 13200 74.9       |  |  |  |  |  |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kelsey Brooks  
Project Manager

# **Analytical Report 556809**

**for  
TRC Solutions, Inc**

**Project Manager: Nikki Green  
Gunslinger 11 Federal Com #001H (03/18/17)**

**18-JUL-17**

Collected By: Client



**1211 W. Florida Ave, Midland TX 79701**

Xenco-Houston (EPA Lab code: TX00122):  
Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054)  
Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295)  
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)  
Xenco-San Antonio: Texas (T104704534)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)  
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



18-JUL-17

Project Manager: **Nikki Green**

**TRC Solutions, Inc**

2057 Commerce

Midland, TX 79703

Reference: XENCO Report No(s): **556809**

**Gunslinger 11 Federal Com #001H (03/18/17)**

Project Address: Lea Co NM

**Nikki Green:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 556809. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 556809 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

**Kelsey Brooks**

Project Manager

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## Sample Cross Reference 556809



**TRC Solutions, Inc, Midland, TX**

Gunslinger 11 Federal Com #001H (03/18/17)

| <b>Sample Id</b> | <b>Matrix</b> | <b>Date Collected</b> | <b>Sample Depth</b> | <b>Lab Sample Id</b> |
|------------------|---------------|-----------------------|---------------------|----------------------|
| West Trench-1 3' | S             | 06-30-17 10:25        |                     | 556809-001           |



## CASE NARRATIVE

**Client Name:** TRC Solutions, Inc

**Project Name:** Gunslinger 11 Federal Com #001H (03/18/17)

Project ID:

Work Order Number(s): 556809

Report Date: 18-JUL-17

Date Received: 07/03/2017

---

### **Sample receipt non conformances and comments:**

---

### **Sample receipt non conformances and comments per sample:**

None

### **Analytical non conformances and comments:**

Batch: LBA-3022089 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3022462 Chloride by EPA 300

Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 556809-001.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.



# Certificate of Analytical Results 556809



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **West Trench-1 3'** Matrix: Soil Date Received: 07.03.17 11.55  
Lab Sample Id: 556809-001 Date Collected: 06.30.17 10.25  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MGO % Moisture:  
Analyst: MGO Date Prep: 07.14.17 15.00 Basis: Wet Weight  
Seq Number: 3022462

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 78.4   | 4.99 | mg/kg | 07.14.17 19.35 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 07.12.17 14.00 Basis: Wet Weight  
Seq Number: 3022138

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 5690       | 74.9  | mg/kg  | 07.12.17 16.11 |      | 5   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 7230       | 74.9  | mg/kg  | 07.12.17 16.11 |      | 5   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 311        | 74.9  | mg/kg  | 07.12.17 16.11 |      | 5   |
| Total TPH                         | PHC635     | 13200      | 74.9  | mg/kg  | 07.12.17 16.11 |      | 5   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 123        | %     | 70-135 | 07.12.17 16.11 |      |     |
| o-Terphenyl                       | 84-15-1    | 118        | %     | 70-135 | 07.12.17 16.11 |      |     |



# Certificate of Analytical Results 556809



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (03/18/17)

Sample Id: **West Trench-1 3'**

Matrix: Soil

Date Received: 07.03.17 11.55

Lab Sample Id: 556809-001

Date Collected: 06.30.17 10.25

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.12.17 13.00

Basis: Wet Weight

Seq Number: 3022089

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>0.660</b>      | 0.201        | mg/kg         | 07.12.17 19.39       |             | 100 |
| <b>Toluene</b>       | 108-88-3          | <b>26.5</b>       | 0.201        | mg/kg         | 07.12.17 19.39       |             | 100 |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>11.8</b>       | 0.201        | mg/kg         | 07.12.17 19.39       |             | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>80.5</b>       | 0.402        | mg/kg         | 07.12.17 19.39       |             | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>36.6</b>       | 0.201        | mg/kg         | 07.12.17 19.39       |             | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>117</b>        | 0.201        | mg/kg         | 07.12.17 19.39       |             | 100 |
| <b>Total BTEX</b>    |                   | <b>156</b>        | 0.201        | mg/kg         | 07.12.17 19.39       |             | 100 |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 81                | %            | 80-120        | 07.12.17 19.39       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 87                | %            | 80-120        | 07.12.17 19.39       |             |     |

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

**MDL** Method Detection Limit      **SDL** Sample Detection Limit      **LOD** Limit of Detection

**PQL** Practical Quantitation Limit      **SQL** Method Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

+ NELAC certification not offered for this compound.

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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 5332 Blackberry Drive, San Antonio TX 78238  
 1211 W Florida Ave, Midland, TX 79701  
 2525 W. Huntington Dr. - Suite 102, Tempe AZ 85282

| Phone          | Fax            |
|----------------|----------------|
| (281) 240-4200 | (281) 240-4280 |
| (214) 902 0300 | (214) 351-9139 |
| (210) 509-3334 | (210) 509-3335 |
| (432) 563-1800 | (432) 563-1713 |
| (602) 437-0330 |                |



## QC Summary 556809

TRC Solutions, Inc  
Gunslinger 11 Federal Com #001H (03/18/17)

**Analytical Method: Chloride by EPA 300**

Seq Number: 3022462

MB Sample Id: 727761-1-BLK

Matrix: Solid

LCS Sample Id: 727761-1-BKS

Prep Method: E300P

Date Prep: 07.14.17

LCSD Sample Id: 727761-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Chloride  | <5.00     | 250          | 262        | 105      | 261         | 104       | 90-110 | 0    | 20        | mg/kg | 07.14.17 16:50 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3022462

Parent Sample Id: 556809-001

Matrix: Soil

MS Sample Id: 556809-001 S

Prep Method: E300P

Date Prep: 07.14.17

MSD Sample Id: 556809-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 78.4          | 250          | 359       | 112     | 358        | 112      | 90-110 | 0    | 20        | mg/kg | 07.14.17 19:42 | X    |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3022462

Parent Sample Id: 557201-001

Matrix: Soil

MS Sample Id: 557201-001 S

Prep Method: E300P

Date Prep: 07.14.17

MSD Sample Id: 557201-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 23.9          | 497          | 542       | 104     | 543        | 104      | 90-110 | 0    | 20        | mg/kg | 07.14.17 17:55 |      |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3022138

MB Sample Id: 727570-1-BLK

Matrix: Solid

LCS Sample Id: 727570-1-BKS

Prep Method: TX1005P

Date Prep: 07.12.17

LCSD Sample Id: 727570-1-BSD

| Parameter                         | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <15.0     | 1000         | 960        | 96       | 983         | 98        | 70-135 | 2    | 35        | mg/kg | 07.12.17 14:59 |      |
| Diesel Range Organics (DRO)       | <15.0     | 1000         | 948        | 95       | 960         | 96        | 70-135 | 1    | 35        | mg/kg | 07.12.17 14:59 |      |

| Surrogate      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 121     |         | 114      |          | 109       |           | 70-135 | %     | 07.12.17 14:59 |
| o-Terphenyl    | 127     |         | 112      |          | 108       |           | 70-135 | %     | 07.12.17 14:59 |

TRC Solutions, Inc  
Gunslinger 11 Federal Com #001H (03/18/17)

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3022138

Parent Sample Id: 557336-001

Matrix: Soil

MS Sample Id: 557336-001 S

Prep Method: TX1005P

Date Prep: 07.12.17

MSD Sample Id: 557336-001 SD

| Parameter                         | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <15.0         | 1000         | 990       | 99      | 1030       | 103      | 70-135 | 4    | 35        | mg/kg | 07.12.17 17:27 |      |
| Diesel Range Organics (DRO)       | 43.5          | 1000         | 1020      | 98      | 1020       | 98       | 70-135 | 0    | 35        | mg/kg | 07.12.17 17:27 |      |

## Surrogate

|                | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 109     |         | 112      |          | 70-135 | %     | 07.12.17 17:27 |
| o-Terphenyl    | 108     |         | 114      |          | 70-135 | %     | 07.12.17 17:27 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3022089

MB Sample Id: 727538-1-BLK

Matrix: Solid

LCS Sample Id: 727538-1-BKS

Prep Method: SW5030B

Date Prep: 07.12.17

LCSD Sample Id: 727538-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00199  | 0.0994       | 0.115      | 116      | 0.118       | 118       | 70-130 | 3    | 35        | mg/kg | 07.12.17 12:49 |      |
| Toluene      | <0.00199  | 0.0994       | 0.108      | 109      | 0.106       | 106       | 70-130 | 2    | 35        | mg/kg | 07.12.17 12:49 |      |
| Ethylbenzene | <0.00199  | 0.0994       | 0.113      | 114      | 0.117       | 117       | 71-129 | 3    | 35        | mg/kg | 07.12.17 12:49 |      |
| m,p-Xylenes  | <0.00398  | 0.199        | 0.196      | 98       | 0.201       | 101       | 70-135 | 3    | 35        | mg/kg | 07.12.17 12:49 |      |
| o-Xylene     | <0.00199  | 0.0994       | 0.104      | 105      | 0.109       | 109       | 71-133 | 5    | 35        | mg/kg | 07.12.17 12:49 |      |

## Surrogate

|                      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 119     |         | 104      |          | 89        |           | 80-120 | %     | 07.12.17 12:49 |
| 4-Bromofluorobenzene | 113     |         | 109      |          | 102       |           | 80-120 | %     | 07.12.17 12:49 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3022089

Parent Sample Id: 557309-001

Matrix: Soil

MS Sample Id: 557309-001 S

Prep Method: SW5030B

Date Prep: 07.12.17

MSD Sample Id: 557309-001 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00199      | 0.0996       | 0.0936    | 94      | 0.103      | 102      | 70-130 | 10   | 35        | mg/kg | 07.12.17 13:55 |      |
| Toluene      | <0.00199      | 0.0996       | 0.0942    | 95      | 0.0779     | 77       | 70-130 | 19   | 35        | mg/kg | 07.12.17 13:55 |      |
| Ethylbenzene | <0.00199      | 0.0996       | 0.0889    | 89      | 0.0869     | 86       | 71-129 | 2    | 35        | mg/kg | 07.12.17 13:55 |      |
| m,p-Xylenes  | <0.00398      | 0.199        | 0.153     | 77      | 0.146      | 73       | 70-135 | 5    | 35        | mg/kg | 07.12.17 13:55 |      |
| o-Xylene     | <0.00199      | 0.0996       | 0.0863    | 87      | 0.0890     | 88       | 71-133 | 3    | 35        | mg/kg | 07.12.17 13:55 |      |

## Surrogate

|                      | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 114     |         | 107      |          | 80-120 | %     | 07.12.17 13:55 |
| 4-Bromofluorobenzene | 119     |         | 120      |          | 80-120 | %     | 07.12.17 13:55 |



Phoenix, Arizona (480-355-0900)

|                |              |
|----------------|--------------|
| Xenoco Quote # | Xenoco Job # |
|                | 554800       |

Temp. **5.1** IR ID: R-8  
 CF: (0-6: -0.2°C)  
 (6-23: +0.2°C)  
 Corrected Temp: **4.9**

Final 1.000



**XENCO Laboratories**  
**Prelogin/Nonconformance Report- Sample Log-In**



**Client:** TRC Solutions, Inc

**Date/ Time Received:** 07/03/2017 11:55:00 AM

**Work Order #:** 556809

**Acceptable Temperature Range:** 0 - 6 degC

**Air and Metal samples Acceptable Range:** Ambient

**Temperature Measuring device used :** R8

| Sample Receipt Checklist                                   | Comments |
|------------------------------------------------------------|----------|
| #1 *Temperature of cooler(s)?                              | 4.9      |
| #2 *Shipping container in good condition?                  | Yes      |
| #3 *Samples received on ice?                               | Yes      |
| #4 *Custody Seal present on shipping container/ cooler?    | N/A      |
| #5 *Custody Seals intact on shipping container/ cooler?    | N/A      |
| #6 Custody Seals intact on sample bottles?                 | N/A      |
| #7 *Custody Seals Signed and dated?                        | N/A      |
| #8 *Chain of Custody present?                              | Yes      |
| #9 Sample instructions complete on Chain of Custody?       | Yes      |
| #10 Any missing/extra samples?                             | No       |
| #11 Chain of Custody signed when relinquished/ received?   | Yes      |
| #12 Chain of Custody agrees with sample label(s)?          | Yes      |
| #13 Container label(s) legible and intact?                 | Yes      |
| #14 Sample matrix/ properties agree with Chain of Custody? | Yes      |
| #15 Samples in proper container/ bottle?                   | Yes      |
| #16 Samples properly preserved?                            | Yes      |
| #17 Sample container(s) intact?                            | Yes      |
| #18 Sufficient sample amount for indicated test(s)?        | Yes      |
| #19 All samples received within hold time?                 | Yes      |
| #20 Subcontract of sample(s)?                              | N/A      |
| #21 VOC samples have zero headspace?                       | N/A      |

**\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by: Jessica Kramer  
Jessica Kramer

Date: 07/03/2017

Checklist reviewed by: \_\_\_\_\_

Date: \_\_\_\_\_



# Certificate of Analysis Summary 567730

TRC Solutions, Inc, Midland, TX



**Project Id:** 8021  
**Contact:** Nikki Green  
**Project Location:** Lea Co, NM

**Project Name:** Gunslinger 11 Federal Com #001H (3/18/17)

**Date Received in Lab:** Wed Nov-08-17 09:40 am

**Report Date:** 12-JAN-18

**Project Manager:** Kelsey Brooks

| <i>Analysis Requested</i>         | <i>Lab Id:</i>    | 567730-001       | 567730-002       | 567730-003       | 567730-004       | 567730-005       | 567730-006       |
|-----------------------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                   | <i>Field Id:</i>  | BH-1 6"          | NW-1 3"          | EW-1 3"          | SW-1 3"          | WW-1 3"          | BH-2 Surface     |
|                                   | <i>Depth:</i>     |                  |                  |                  |                  |                  |                  |
|                                   | <i>Matrix:</i>    | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             |
|                                   | <i>Sampled:</i>   | Nov-06-17 15:00  | Nov-06-17 15:05  | Nov-06-17 15:10  | Nov-06-17 15:15  | Nov-06-17 15:20  | Nov-06-17 15:25  |
| <b>BTEX by EPA 8021B</b>          | <i>Extracted:</i> | Nov-10-17 07:45  | Nov-10-17 07:45  | Nov-10-17 07:45  | Nov-10-17 07:45  | Nov-10-17 07:45  | Nov-10-17 07:45  |
|                                   | <i>Analyzed:</i>  | Nov-10-17 13:32  | Nov-10-17 13:49  | Nov-10-17 14:08  | Nov-10-17 14:27  | Nov-10-17 14:46  | Nov-10-17 15:05  |
|                                   | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Benzene                           |                   | <0.00201 0.00201 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 | <0.00200 0.00200 | <0.00199 0.00199 |
| Toluene                           |                   | <0.00201 0.00201 | <0.00199 0.00199 | 0.00201 0.00200  | 0.00880 0.00201  | <0.00200 0.00200 | <0.00199 0.00199 |
| Ethylbenzene                      |                   | <0.00201 0.00201 | <0.00199 0.00199 | 0.00427 0.00200  | <0.00201 0.00201 | <0.00200 0.00200 | <0.00199 0.00199 |
| Xylenes, Total                    |                   | <0.00201 0.00201 | <0.00199 0.00199 | 0.0667 0.002     | 0.3059 0.00201   | 0.01716 0.002    | <0.00199 0.00199 |
| Total BTEX                        |                   | <0.00201 0.00201 | <0.00199 0.00199 | 0.07298 0.002    | 0.3147 0.00201   | 0.01716 0.002    | <0.00199 0.00199 |
| <b>Chloride by EPA 300</b>        | <i>Extracted:</i> | Nov-09-17 10:00  | Nov-16-17 10:00  | Nov-16-17 10:00  | Nov-09-17 10:00  | Nov-16-17 10:00  | Nov-09-17 10:00  |
|                                   | <i>Analyzed:</i>  | Nov-09-17 14:28  | Nov-16-17 14:43  | Nov-16-17 14:49  | Nov-09-17 14:47  | Nov-16-17 14:55  | Nov-09-17 15:00  |
|                                   | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Chloride                          |                   | 104 4.94         | 1081 24.9        | 1340 24.7        | 28.4 4.96        | 710 4.91         | 6.87 4.94        |
| <b>TPH by SW8015 Mod</b>          | <i>Extracted:</i> | Nov-09-17 17:00  | Nov-09-17 17:00  | Nov-09-17 17:00  | Nov-09-17 17:00  | Nov-09-17 17:00  | Nov-09-17 17:00  |
|                                   | <i>Analyzed:</i>  | Nov-09-17 19:53  | Nov-09-17 20:54  | Nov-09-17 21:14  | Nov-09-17 21:37  | Nov-09-17 21:57  | Nov-09-17 22:17  |
|                                   | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Gasoline Range Hydrocarbons (GRO) |                   | <15.0 15.0       | <15.0 15.0       | 34.0 15.0        | 258 15.0         | 69.5 14.9        | <14.9 14.9       |
| Diesel Range Organics (DRO)       |                   | 146 15.0         | 100 15.0         | 1720 15.0        | 1690 15.0        | 2080 14.9        | <14.9 14.9       |
| Oil Range Hydrocarbons (ORO)      |                   | <15.0 15.0       | 15.8 15.0        | 234 15.0         | 180 15.0         | 273 14.9         | <14.9 14.9       |
| Total TPH                         |                   | 146 15           | 115.8 15         | 1988 15          | 2128 15          | 2422.5 14.9      | <14.9 14.9       |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Mike Kimmel  
Client Services Manager



# Certificate of Analysis Summary 567730

TRC Solutions, Inc, Midland, TX

Project Name: Gunslinger 11 Federal Com #001H (3/18/17)



Project Id: 8021  
Contact: Nikki Green  
Project Location: Lea Co, NM

Date Received in Lab: Wed Nov-08-17 09:40 am  
Report Date: 12-JAN-18  
Project Manager: Kelsey Brooks

| Analysis Requested                | Lab Id:    | 567730-007       | 567730-008       | 567730-009       | 567730-010       | 567730-011       | 567730-012       |
|-----------------------------------|------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                   | Field Id:  | South-1 Surface  | North-1 Surface  | BH-3 1'          | NW-2 6"          | EW-2 6"          | SW-2 6"          |
|                                   | Depth:     |                  |                  |                  |                  |                  |                  |
|                                   | Matrix:    | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             |
|                                   | Sampled:   | Nov-06-17 15:30  | Nov-06-17 15:35  | Nov-06-17 15:40  | Nov-06-17 15:45  | Nov-06-17 15:50  | Nov-06-17 15:55  |
| BTEX by EPA 8021B                 | Extracted: | Nov-13-17 16:45  | Nov-13-17 16:45  | Nov-13-17 16:45  | Nov-13-17 16:45  | Nov-13-17 16:45  | Nov-13-17 16:45  |
|                                   | Analyzed:  | Nov-14-17 11:52  | Nov-14-17 12:10  | Nov-14-17 11:33  | Nov-14-17 07:59  | Nov-14-17 08:18  | Nov-14-17 08:37  |
|                                   | Units/RL:  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Benzene                           |            | <0.00341 0.00341 | <0.00346 0.00346 | <0.00202 0.00202 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 |
| Toluene                           |            | <0.00341 0.00341 | <0.00346 0.00346 | <0.00202 0.00202 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 |
| Ethylbenzene                      |            | <0.00341 0.00341 | <0.00346 0.00346 | <0.00202 0.00202 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 |
| Xylenes, Total                    |            | <0.00341 0.00341 | <0.00346 0.00346 | <0.00202 0.00202 | 0.0711 0.00199   | <0.002 0.002     | <0.00201 0.00201 |
| Total BTEX                        |            | <0.00341 0.00341 | <0.00346 0.00346 | <0.00202 0.00202 | 0.0711 0.00199   | <0.002 0.002     | <0.00201 0.00201 |
| Chloride by EPA 300               | Extracted: | Nov-10-17 15:00  | Nov-10-17 15:00  | Nov-10-17 15:00  | Nov-10-17 15:00  | Nov-10-17 15:00  | Nov-10-17 15:30  |
|                                   | Analyzed:  | Nov-10-17 22:54  | Nov-10-17 23:01  | Nov-10-17 23:07  | Nov-10-17 23:14  | Nov-10-17 23:20  | Nov-10-17 23:58  |
|                                   | Units/RL:  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Chloride                          |            | 10.6 4.92        | 6.25 4.94        | 167 4.90         | 542 4.99         | 53.7 4.99        | 319 4.95         |
| TPH by SW8015 Mod                 | Extracted: | Nov-09-17 17:00  | Nov-09-17 17:00  | Nov-09-17 17:00  | Nov-09-17 17:00  | Nov-09-17 17:00  | Nov-09-17 17:00  |
|                                   | Analyzed:  | Nov-09-17 22:36  | Nov-09-17 22:56  | Nov-09-17 23:17  | Nov-10-17 06:57  | Nov-10-17 00:40  | Nov-10-17 01:00  |
|                                   | Units/RL:  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Gasoline Range Hydrocarbons (GRO) |            | <15.0 15.0       | <15.0 15.0       | <15.0 15.0       | 231 74.9         | <15.0 15.0       | <15.0 15.0       |
| Diesel Range Organics (DRO)       |            | <15.0 15.0       | <15.0 15.0       | 94.9 15.0        | 6780 74.9        | 132 15.0         | 129 15.0         |
| Oil Range Hydrocarbons (ORO)      |            | <15.0 15.0       | <15.0 15.0       | 42.8 15.0        | 649 74.9         | 23.5 15.0        | 15.5 15.0        |
| Total TPH                         |            | <15 15           | <15 15           | 137.7 15         | 7660 74.9        | 155.5 15         | 144.5 15         |

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Mike Kimmel  
Client Services Manager



# Certificate of Analysis Summary 567730

TRC Solutions, Inc, Midland, TX

Project Name: Gunslinger 11 Federal Com #001H (3/18/17)



Project Id: 8021  
Contact: Nikki Green  
Project Location: Lea Co, NM

Date Received in Lab: Wed Nov-08-17 09:40 am  
Report Date: 12-JAN-18  
Project Manager: Kelsey Brooks

| <i>Analysis Requested</i>         | <i>Lab Id:</i>    | 567730-013       | 567730-014       | 567730-015       | 567730-016       | 567730-017       |  |
|-----------------------------------|-------------------|------------------|------------------|------------------|------------------|------------------|--|
|                                   | <i>Field Id:</i>  | BH-4 6"          | NW-3 3'          | EW-3 3'          | SW-3 3'          | WW-2 3'          |  |
|                                   | <i>Depth:</i>     |                  |                  |                  |                  |                  |  |
|                                   | <i>Matrix:</i>    | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             |  |
|                                   | <i>Sampled:</i>   | Nov-06-17 16:00  | Nov-06-17 16:05  | Nov-06-17 16:10  | Nov-06-17 16:15  | Nov-06-17 16:20  |  |
| <b>BTEX by EPA 8021B</b>          | <i>Extracted:</i> | Nov-13-17 16:45  | Nov-13-17 16:45  | Nov-13-17 16:45  | Nov-13-17 16:45  | Nov-13-17 16:45  |  |
|                                   | <i>Analyzed:</i>  | Nov-14-17 08:56  | Nov-14-17 09:15  | Nov-14-17 12:29  | Nov-14-17 09:53  | Nov-14-17 07:40  |  |
|                                   | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |  |
| Benzene                           |                   | <0.00202 0.00202 | <0.00200 0.00200 | <0.00339 0.00339 | <0.00201 0.00201 | <0.00200 0.00200 |  |
| Toluene                           |                   | <0.00202 0.00202 | <0.00200 0.00200 | <0.00339 0.00339 | <0.00201 0.00201 | <0.00200 0.00200 |  |
| Ethylbenzene                      |                   | <0.00202 0.00202 | <0.00200 0.00200 | <0.00339 0.00339 | <0.00201 0.00201 | <0.00200 0.00200 |  |
| Xylenes, Total                    |                   | <0.00202 0.00202 | <0.002 0.002     | <0.00339 0.00339 | <0.00201 0.00201 | <0.002 0.002     |  |
| Total BTEX                        |                   | <0.00202 0.00202 | <0.002 0.002     | <0.00339 0.00339 | <0.00201 0.00201 | <0.002 0.002     |  |
| <b>Chloride by EPA 300</b>        | <i>Extracted:</i> | Nov-10-17 15:30  | Nov-10-17 15:30  | Nov-16-17 10:00  | Nov-10-17 15:30  | Nov-10-17 15:30  |  |
|                                   | <i>Analyzed:</i>  | Nov-11-17 00:17  | Nov-11-17 00:24  | Nov-16-17 15:01  | Nov-11-17 00:37  | Nov-11-17 00:56  |  |
|                                   | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |  |
| Chloride                          |                   | 274 4.97         | 6.25 4.93        | 1160 25.0        | 66.1 4.92        | 10.9 4.93        |  |
| <b>TPH by SW8015 Mod</b>          | <i>Extracted:</i> | Nov-09-17 17:00  | Nov-09-17 17:00  | Nov-09-17 17:00  | Nov-09-17 17:00  | Nov-11-17 15:00  |  |
|                                   | <i>Analyzed:</i>  | Nov-10-17 01:20  | Nov-10-17 01:40  | Nov-10-17 02:01  | Nov-10-17 02:21  | Nov-12-17 08:57  |  |
|                                   | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |  |
| Gasoline Range Hydrocarbons (GRO) |                   | <15.0 15.0       | <15.0 15.0       | <14.9 14.9       | <15.0 15.0       | <15.0 15.0       |  |
| Diesel Range Organics (DRO)       |                   | 641 15.0         | <15.0 15.0       | 87.6 14.9        | <15.0 15.0       | <15.0 15.0       |  |
| Oil Range Hydrocarbons (ORO)      |                   | 75.0 15.0        | <15.0 15.0       | <14.9 14.9       | <15.0 15.0       | <15.0 15.0       |  |
| Total TPH                         |                   | 716 15           | <15 15           | 87.6 14.9        | <15 15           | <15 15           |  |

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Mike Kimmel  
Client Services Manager

# **Analytical Report 567730**

**for  
TRC Solutions, Inc**

**Project Manager: Nikki Green  
Gunslinger 11 Federal Com #001H (3/18/17)**

**12-JAN-18**

Collected By: Client



**1211 W. Florida Ave, Midland TX 79701**

Xenco-Houston (EPA Lab code: TX00122):  
Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)  
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab code: TX01468):  
Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)  
Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)  
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)  
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)  
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



12-JAN-18

Project Manager: **Nikki Green**

**TRC Solutions, Inc**

2057 Commerce

Midland, TX 79703

Reference: XENCO Report No(s): **567730**

**Gunslinger 11 Federal Com #001H (3/18/17)**

Project Address: Lea Co, NM

**Nikki Green:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 567730. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 567730 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

**Mike Kimmel**

Client Services Manager

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## Sample Cross Reference 567730



TRC Solutions, Inc, Midland, TX

Gunslinger 11 Federal Com #001H (3/18/17)

| Sample Id       | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------------|--------|----------------|--------------|---------------|
| BH-1 6"         | S      | 11-06-17 15:00 |              | 567730-001    |
| NW-1 3"         | S      | 11-06-17 15:05 |              | 567730-002    |
| EW-1 3"         | S      | 11-06-17 15:10 |              | 567730-003    |
| SW-1 3"         | S      | 11-06-17 15:15 |              | 567730-004    |
| WW-1 3"         | S      | 11-06-17 15:20 |              | 567730-005    |
| BH-2 Surface    | S      | 11-06-17 15:25 |              | 567730-006    |
| South-1 Surface | S      | 11-06-17 15:30 |              | 567730-007    |
| North-1 Surface | S      | 11-06-17 15:35 |              | 567730-008    |
| BH-3 1'         | S      | 11-06-17 15:40 |              | 567730-009    |
| NW-2 6"         | S      | 11-06-17 15:45 |              | 567730-010    |
| EW-2 6"         | S      | 11-06-17 15:50 |              | 567730-011    |
| SW-2 6"         | S      | 11-06-17 15:55 |              | 567730-012    |
| BH-4 6"         | S      | 11-06-17 16:00 |              | 567730-013    |
| NW-3 3'         | S      | 11-06-17 16:05 |              | 567730-014    |
| EW-3 3'         | S      | 11-06-17 16:10 |              | 567730-015    |
| SW-3 3'         | S      | 11-06-17 16:15 |              | 567730-016    |
| WW-2 3'         | S      | 11-06-17 16:20 |              | 567730-017    |



## CASE NARRATIVE

**Client Name:** TRC Solutions, Inc

**Project Name:** Gunslinger 11 Federal Com #001H (3/18/17)

Project ID: 8021  
Work Order Number(s): 567730

Report Date: 12-JAN-18  
Date Received: 11/08/2017

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**Sample receipt non conformances and comments:**

12/05/17: Revised report with re-run Chloride results for samples: 567730-002,003,005, and 015.

Sample 567730-010 was re-extracted and re-run per clients request, results were:

GRO: 770 mg/kg

DRO: 6800 mg/kg

ORO: 55 mg/kg

01/12/18: Revised report for missing Chloride values.

---

**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-3032942 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3033080 Chloride by EPA 300

Lab Sample ID 567730-012 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 567730-012, -013, -014, -015, -016, -017.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3033304 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Lab Sample ID 567730-017 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, Toluene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Benzene recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 567730-007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017.

The Laboratory Control Sample for Toluene, Benzene, Ethylbenzene is within laboratory Control Limits, therefore the data was accepted.



# Certificate of Analytical Results 567730



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: **BH-1 6"** Matrix: Soil Date Received: 11.08.17 09.40  
Lab Sample Id: 567730-001 Date Collected: 11.06.17 15.00  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MNV % Moisture:  
Analyst: MNV Date Prep: 11.09.17 10.00 Basis: Wet Weight  
Seq Number: 3032929

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 104    | 4.94 | mg/kg | 11.09.17 14.28 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 11.09.17 17.00 Basis: Wet Weight  
Seq Number: 3032958

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0  | 15.0 | mg/kg | 11.09.17 19.53 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 146    | 15.0 | mg/kg | 11.09.17 19.53 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0  | 15.0 | mg/kg | 11.09.17 19.53 | U    | 1   |
| Total TPH                         | PHC635     | 146    | 15   | mg/kg | 11.09.17 19.53 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 107        | %     | 70-135 | 11.09.17 19.53 |      |
| o-Terphenyl    | 84-15-1    | 99         | %     | 70-135 | 11.09.17 19.53 |      |

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B  
Tech: ALJ % Moisture:  
Analyst: ALJ Date Prep: 11.10.17 07.45 Basis: Wet Weight  
Seq Number: 3032942

| Parameter      | Cas Number | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|----------------|------------|----------|---------|-------|----------------|------|-----|
| Benzene        | 71-43-2    | <0.00201 | 0.00201 | mg/kg | 11.10.17 13.32 | U    | 1   |
| Toluene        | 108-88-3   | <0.00201 | 0.00201 | mg/kg | 11.10.17 13.32 | U    | 1   |
| Ethylbenzene   | 100-41-4   | <0.00201 | 0.00201 | mg/kg | 11.10.17 13.32 | U    | 1   |
| Xylenes, Total | 1330-20-7  | <0.00201 | 0.00201 | mg/kg | 11.10.17 13.32 | U    | 1   |
| Total BTEX     |            | <0.00201 | 0.00201 | mg/kg | 11.10.17 13.32 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 96         | %     | 80-120 | 11.10.17 13.32 |      |
| 4-Bromofluorobenzene | 460-00-4   | 86         | %     | 80-120 | 11.10.17 13.32 |      |



# Certificate of Analytical Results 567730



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: **NW-1 3"** Matrix: Soil Date Received: 11.08.17 09.40  
Lab Sample Id: 567730-002 Date Collected: 11.06.17 15.05  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MNV % Moisture:  
Analyst: MNV Date Prep: 11.16.17 10.00 Basis: Wet Weight  
Seq Number: 3033525

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 1081   | 24.9 | mg/kg | 11.16.17 14.43 |      | 5   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 11.09.17 17.00 Basis: Wet Weight  
Seq Number: 3032958

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0  | 15.0 | mg/kg | 11.09.17 20.54 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 100    | 15.0 | mg/kg | 11.09.17 20.54 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 15.8   | 15.0 | mg/kg | 11.09.17 20.54 |      | 1   |
| Total TPH                         | PHC635     | 115.8  | 15   | mg/kg | 11.09.17 20.54 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 107        | %     | 70-135 | 11.09.17 20.54 |      |
| o-Terphenyl    | 84-15-1    | 99         | %     | 70-135 | 11.09.17 20.54 |      |

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B  
Tech: ALJ % Moisture:  
Analyst: ALJ Date Prep: 11.10.17 07.45 Basis: Wet Weight  
Seq Number: 3032942

| Parameter      | Cas Number | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|----------------|------------|----------|---------|-------|----------------|------|-----|
| Benzene        | 71-43-2    | <0.00199 | 0.00199 | mg/kg | 11.10.17 13.49 | U    | 1   |
| Toluene        | 108-88-3   | <0.00199 | 0.00199 | mg/kg | 11.10.17 13.49 | U    | 1   |
| Ethylbenzene   | 100-41-4   | <0.00199 | 0.00199 | mg/kg | 11.10.17 13.49 | U    | 1   |
| Xylenes, Total | 1330-20-7  | <0.00199 | 0.00199 | mg/kg | 11.10.17 13.49 | U    | 1   |
| Total BTEX     |            | <0.00199 | 0.00199 | mg/kg | 11.10.17 13.49 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 83         | %     | 80-120 | 11.10.17 13.49 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 93         | %     | 80-120 | 11.10.17 13.49 |      |



# Certificate of Analytical Results 567730



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: **EW-1 3"**  
Lab Sample Id: 567730-003

Matrix: Soil  
Date Collected: 11.06.17 15.10

Date Received: 11.08.17 09.40

Analytical Method: Chloride by EPA 300  
Tech: MNV  
Analyst: MNV  
Seq Number: 3033525

Prep Method: E300P  
% Moisture:  
Date Prep: 11.16.17 10.00  
Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 1340   | 24.7 | mg/kg | 11.16.17 14.49 |      | 5   |

Analytical Method: TPH by SW8015 Mod  
Tech: ARM  
Analyst: ARM  
Seq Number: 3032958

Prep Method: TX1005P  
% Moisture:  
Date Prep: 11.09.17 17.00  
Basis: Wet Weight

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 34.0       | 15.0  | mg/kg  | 11.09.17 21.14 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 1720       | 15.0  | mg/kg  | 11.09.17 21.14 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 234        | 15.0  | mg/kg  | 11.09.17 21.14 |      | 1   |
| Total TPH                         | PHC635     | 1988       | 15    | mg/kg  | 11.09.17 21.14 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 102        | %     | 70-135 | 11.09.17 21.14 |      |     |
| o-Terphenyl                       | 84-15-1    | 85         | %     | 70-135 | 11.09.17 21.14 |      |     |

Analytical Method: BTEX by EPA 8021B  
Tech: ALJ  
Analyst: ALJ  
Seq Number: 3032942

Prep Method: SW5030B  
% Moisture:  
Date Prep: 11.10.17 07.45  
Basis: Wet Weight

| Parameter            | Cas Number | Result     | RL      | Units  | Analysis Date  | Flag | Dil |
|----------------------|------------|------------|---------|--------|----------------|------|-----|
| Benzene              | 71-43-2    | <0.00200   | 0.00200 | mg/kg  | 11.10.17 14.08 | U    | 1   |
| Toluene              | 108-88-3   | 0.00201    | 0.00200 | mg/kg  | 11.10.17 14.08 |      | 1   |
| Ethylbenzene         | 100-41-4   | 0.00427    | 0.00200 | mg/kg  | 11.10.17 14.08 |      | 1   |
| Xylenes, Total       | 1330-20-7  | 0.0667     | 0.002   | mg/kg  | 11.10.17 14.08 |      | 1   |
| Total BTEX           |            | 0.07298    | 0.002   | mg/kg  | 11.10.17 14.08 |      | 1   |
| Surrogate            | Cas Number | % Recovery | Units   | Limits | Analysis Date  | Flag |     |
| 4-Bromofluorobenzene | 460-00-4   | 97         | %       | 80-120 | 11.10.17 14.08 |      |     |
| 1,4-Difluorobenzene  | 540-36-3   | 92         | %       | 80-120 | 11.10.17 14.08 |      |     |



# Certificate of Analytical Results 567730



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: SW-1 3"  
Lab Sample Id: 567730-004

Matrix: Soil  
Date Collected: 11.06.17 15.15

Date Received: 11.08.17 09.40

Analytical Method: Chloride by EPA 300  
Tech: MNV  
Analyst: MNV  
Seq Number: 3032929

Prep Method: E300P  
% Moisture:  
Basis: Wet Weight  
Date Prep: 11.09.17 10.00

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 28.4   | 4.96 | mg/kg | 11.09.17 14.47 |      | 1   |

Analytical Method: TPH by SW8015 Mod  
Tech: ARM  
Analyst: ARM  
Seq Number: 3032958

Prep Method: TX1005P  
% Moisture:  
Basis: Wet Weight  
Date Prep: 11.09.17 17.00

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 258        | 15.0  | mg/kg  | 11.09.17 21.37 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 1690       | 15.0  | mg/kg  | 11.09.17 21.37 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 180        | 15.0  | mg/kg  | 11.09.17 21.37 |      | 1   |
| Total TPH                         | PHC635     | 2128       | 15    | mg/kg  | 11.09.17 21.37 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 101        | %     | 70-135 | 11.09.17 21.37 |      |     |
| o-Terphenyl                       | 84-15-1    | 87         | %     | 70-135 | 11.09.17 21.37 |      |     |

Analytical Method: BTEX by EPA 8021B  
Tech: ALJ  
Analyst: ALJ  
Seq Number: 3032942

Prep Method: SW5030B  
% Moisture:  
Basis: Wet Weight  
Date Prep: 11.10.17 07.45

| Parameter            | Cas Number | Result     | RL      | Units  | Analysis Date  | Flag | Dil |
|----------------------|------------|------------|---------|--------|----------------|------|-----|
| Benzene              | 71-43-2    | <0.00201   | 0.00201 | mg/kg  | 11.10.17 14.27 | U    | 1   |
| Toluene              | 108-88-3   | 0.00880    | 0.00201 | mg/kg  | 11.10.17 14.27 |      | 1   |
| Ethylbenzene         | 100-41-4   | <0.00201   | 0.00201 | mg/kg  | 11.10.17 14.27 | U    | 1   |
| Xylenes, Total       | 1330-20-7  | 0.3059     | 0.00201 | mg/kg  | 11.10.17 14.27 |      | 1   |
| Total BTEX           |            | 0.3147     | 0.00201 | mg/kg  | 11.10.17 14.27 |      | 1   |
| Surrogate            | Cas Number | % Recovery | Units   | Limits | Analysis Date  | Flag |     |
| 4-Bromofluorobenzene | 460-00-4   | 109        | %       | 80-120 | 11.10.17 14.27 |      |     |
| 1,4-Difluorobenzene  | 540-36-3   | 107        | %       | 80-120 | 11.10.17 14.27 |      |     |



# Certificate of Analytical Results 567730



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: **WW-1 3"**  
Lab Sample Id: 567730-005

Matrix: Soil  
Date Collected: 11.06.17 15.20

Date Received: 11.08.17 09.40

Analytical Method: Chloride by EPA 300  
Tech: MNV  
Analyst: MNV  
Seq Number: 3033525

Prep Method: E300P  
% Moisture:  
Basis: Wet Weight  
Date Prep: 11.16.17 10.00

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 710    | 4.91 | mg/kg | 11.16.17 14.55 |      | 1   |

Analytical Method: TPH by SW8015 Mod  
Tech: ARM  
Analyst: ARM  
Seq Number: 3032958

Prep Method: TX1005P  
% Moisture:  
Basis: Wet Weight  
Date Prep: 11.09.17 17.00

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 69.5       | 14.9  | mg/kg  | 11.09.17 21.57 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 2080       | 14.9  | mg/kg  | 11.09.17 21.57 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 273        | 14.9  | mg/kg  | 11.09.17 21.57 |      | 1   |
| Total TPH                         | PHC635     | 2422.5     | 14.9  | mg/kg  | 11.09.17 21.57 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 103        | %     | 70-135 | 11.09.17 21.57 |      |     |
| o-Terphenyl                       | 84-15-1    | 87         | %     | 70-135 | 11.09.17 21.57 |      |     |

Analytical Method: BTEX by EPA 8021B  
Tech: ALJ  
Analyst: ALJ  
Seq Number: 3032942

Prep Method: SW5030B  
% Moisture:  
Basis: Wet Weight  
Date Prep: 11.10.17 07.45

| Parameter            | Cas Number | Result     | RL      | Units  | Analysis Date  | Flag | Dil |
|----------------------|------------|------------|---------|--------|----------------|------|-----|
| Benzene              | 71-43-2    | <0.00200   | 0.00200 | mg/kg  | 11.10.17 14.46 | U    | 1   |
| Toluene              | 108-88-3   | <0.00200   | 0.00200 | mg/kg  | 11.10.17 14.46 | U    | 1   |
| Ethylbenzene         | 100-41-4   | <0.00200   | 0.00200 | mg/kg  | 11.10.17 14.46 | U    | 1   |
| Xylenes, Total       | 1330-20-7  | 0.01716    | 0.002   | mg/kg  | 11.10.17 14.46 |      | 1   |
| Total BTEX           |            | 0.01716    | 0.002   | mg/kg  | 11.10.17 14.46 |      | 1   |
| Surrogate            | Cas Number | % Recovery | Units   | Limits | Analysis Date  | Flag |     |
| 4-Bromofluorobenzene | 460-00-4   | 93         | %       | 80-120 | 11.10.17 14.46 |      |     |
| 1,4-Difluorobenzene  | 540-36-3   | 86         | %       | 80-120 | 11.10.17 14.46 |      |     |



# Certificate of Analytical Results 567730



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: **BH-2 Surface**

Matrix: Soil

Date Received: 11.08.17 09.40

Lab Sample Id: 567730-006

Date Collected: 11.06.17 15.25

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 11.09.17 10.00

Basis: Wet Weight

Seq Number: 3032929

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 6.87   | 4.94 | mg/kg | 11.09.17 15.00 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 11.09.17 17.00

Basis: Wet Weight

Seq Number: 3032958

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <14.9  | 14.9 | mg/kg | 11.09.17 22.17 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | <14.9  | 14.9 | mg/kg | 11.09.17 22.17 | U    | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <14.9  | 14.9 | mg/kg | 11.09.17 22.17 | U    | 1   |
| Total TPH                         | PHC635     | <14.9  | 14.9 | mg/kg | 11.09.17 22.17 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 109        | %     | 70-135 | 11.09.17 22.17 |      |
| o-Terphenyl    | 84-15-1    | 102        | %     | 70-135 | 11.09.17 22.17 |      |

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 11.10.17 07.45

Basis: Wet Weight

Seq Number: 3032942

| Parameter      | Cas Number | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|----------------|------------|----------|---------|-------|----------------|------|-----|
| Benzene        | 71-43-2    | <0.00199 | 0.00199 | mg/kg | 11.10.17 15.05 | U    | 1   |
| Toluene        | 108-88-3   | <0.00199 | 0.00199 | mg/kg | 11.10.17 15.05 | U    | 1   |
| Ethylbenzene   | 100-41-4   | <0.00199 | 0.00199 | mg/kg | 11.10.17 15.05 | U    | 1   |
| Xylenes, Total | 1330-20-7  | <0.00199 | 0.00199 | mg/kg | 11.10.17 15.05 | U    | 1   |
| Total BTEX     |            | <0.00199 | 0.00199 | mg/kg | 11.10.17 15.05 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 91         | %     | 80-120 | 11.10.17 15.05 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 98         | %     | 80-120 | 11.10.17 15.05 |      |



# Certificate of Analytical Results 567730



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: **South-1 Surface**

Matrix: Soil

Date Received: 11.08.17 09.40

Lab Sample Id: 567730-007

Date Collected: 11.06.17 15.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 11.10.17 15.00

Basis: Wet Weight

Seq Number: 3033077

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 10.6   | 4.92 | mg/kg | 11.10.17 22.54 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 11.09.17 17.00

Basis: Wet Weight

Seq Number: 3032958

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0  | 15.0 | mg/kg | 11.09.17 22.36 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | <15.0  | 15.0 | mg/kg | 11.09.17 22.36 | U    | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0  | 15.0 | mg/kg | 11.09.17 22.36 | U    | 1   |
| Total TPH                         | PHC635     | <15    | 15   | mg/kg | 11.09.17 22.36 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 105        | %     | 70-135 | 11.09.17 22.36 |      |
| o-Terphenyl    | 84-15-1    | 98         | %     | 70-135 | 11.09.17 22.36 |      |

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 11.13.17 16.45

Basis: Wet Weight

Seq Number: 3033304

| Parameter      | Cas Number | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|----------------|------------|----------|---------|-------|----------------|------|-----|
| Benzene        | 71-43-2    | <0.00341 | 0.00341 | mg/kg | 11.14.17 11.52 | U    | 1   |
| Toluene        | 108-88-3   | <0.00341 | 0.00341 | mg/kg | 11.14.17 11.52 | U    | 1   |
| Ethylbenzene   | 100-41-4   | <0.00341 | 0.00341 | mg/kg | 11.14.17 11.52 | U    | 1   |
| Xylenes, Total | 1330-20-7  | <0.00341 | 0.00341 | mg/kg | 11.14.17 11.52 | U    | 1   |
| Total BTEX     |            | <0.00341 | 0.00341 | mg/kg | 11.14.17 11.52 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 110        | %     | 80-120 | 11.14.17 11.52 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 99         | %     | 80-120 | 11.14.17 11.52 |      |



# Certificate of Analytical Results 567730



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: **North-1 Surface** Matrix: Soil Date Received: 11.08.17 09.40  
Lab Sample Id: 567730-008 Date Collected: 11.06.17 15.35  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MNV % Moisture:  
Analyst: MNV Date Prep: 11.10.17 15.00 Basis: Wet Weight  
Seq Number: 3033077

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 6.25   | 4.94 | mg/kg | 11.10.17 23.01 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 11.09.17 17.00 Basis: Wet Weight  
Seq Number: 3032958

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0  | 15.0 | mg/kg | 11.09.17 22.56 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | <15.0  | 15.0 | mg/kg | 11.09.17 22.56 | U    | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0  | 15.0 | mg/kg | 11.09.17 22.56 | U    | 1   |
| Total TPH                         | PHC635     | <15    | 15   | mg/kg | 11.09.17 22.56 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 106        | %     | 70-135 | 11.09.17 22.56 |      |
| o-Terphenyl    | 84-15-1    | 99         | %     | 70-135 | 11.09.17 22.56 |      |

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B  
Tech: ALJ % Moisture:  
Analyst: ALJ Date Prep: 11.13.17 16.45 Basis: Wet Weight  
Seq Number: 3033304

| Parameter      | Cas Number | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|----------------|------------|----------|---------|-------|----------------|------|-----|
| Benzene        | 71-43-2    | <0.00346 | 0.00346 | mg/kg | 11.14.17 12.10 | U    | 1   |
| Toluene        | 108-88-3   | <0.00346 | 0.00346 | mg/kg | 11.14.17 12.10 | U    | 1   |
| Ethylbenzene   | 100-41-4   | <0.00346 | 0.00346 | mg/kg | 11.14.17 12.10 | U    | 1   |
| Xylenes, Total | 1330-20-7  | <0.00346 | 0.00346 | mg/kg | 11.14.17 12.10 | U    | 1   |
| Total BTEX     |            | <0.00346 | 0.00346 | mg/kg | 11.14.17 12.10 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 87         | %     | 80-120 | 11.14.17 12.10 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 98         | %     | 80-120 | 11.14.17 12.10 |      |



# Certificate of Analytical Results 567730



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: **BH-3 1'** Matrix: Soil Date Received: 11.08.17 09.40  
Lab Sample Id: 567730-009 Date Collected: 11.06.17 15.40  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MNV % Moisture:  
Analyst: MNV Date Prep: 11.10.17 15.00 Basis: Wet Weight  
Seq Number: 3033077

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 167    | 4.90 | mg/kg | 11.10.17 23.07 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 11.09.17 17.00 Basis: Wet Weight  
Seq Number: 3032958

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0  | 15.0 | mg/kg | 11.09.17 23.17 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 94.9   | 15.0 | mg/kg | 11.09.17 23.17 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 42.8   | 15.0 | mg/kg | 11.09.17 23.17 |      | 1   |
| Total TPH                         | PHC635     | 137.7  | 15   | mg/kg | 11.09.17 23.17 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 106        | %     | 70-135 | 11.09.17 23.17 |      |
| o-Terphenyl    | 84-15-1    | 97         | %     | 70-135 | 11.09.17 23.17 |      |

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B  
Tech: ALJ % Moisture:  
Analyst: ALJ Date Prep: 11.13.17 16.45 Basis: Wet Weight  
Seq Number: 3033304

| Parameter      | Cas Number | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|----------------|------------|----------|---------|-------|----------------|------|-----|
| Benzene        | 71-43-2    | <0.00202 | 0.00202 | mg/kg | 11.14.17 11.33 | U    | 1   |
| Toluene        | 108-88-3   | <0.00202 | 0.00202 | mg/kg | 11.14.17 11.33 | U    | 1   |
| Ethylbenzene   | 100-41-4   | <0.00202 | 0.00202 | mg/kg | 11.14.17 11.33 | U    | 1   |
| Xylenes, Total | 1330-20-7  | <0.00202 | 0.00202 | mg/kg | 11.14.17 11.33 | U    | 1   |
| Total BTEX     |            | <0.00202 | 0.00202 | mg/kg | 11.14.17 11.33 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 99         | %     | 80-120 | 11.14.17 11.33 |      |
| 4-Bromofluorobenzene | 460-00-4   | 91         | %     | 80-120 | 11.14.17 11.33 |      |



# Certificate of Analytical Results 567730



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: **NW-2 6"**  
Lab Sample Id: 567730-010

Matrix: Soil  
Date Collected: 11.06.17 15.45

Date Received: 11.08.17 09.40

Analytical Method: Chloride by EPA 300  
Tech: MNV  
Analyst: MNV  
Seq Number: 3033077

Prep Method: E300P  
% Moisture:  
Date Prep: 11.10.17 15.00  
Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 542    | 4.99 | mg/kg | 11.10.17 23.14 |      | 1   |

Analytical Method: TPH by SW8015 Mod  
Tech: ARM  
Analyst: ARM  
Seq Number: 3032958

Prep Method: TX1005P  
% Moisture:  
Date Prep: 11.09.17 17.00  
Basis: Wet Weight

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 231        | 74.9  | mg/kg  | 11.10.17 06.57 |      | 5   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 6780       | 74.9  | mg/kg  | 11.10.17 06.57 |      | 5   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 649        | 74.9  | mg/kg  | 11.10.17 06.57 |      | 5   |
| Total TPH                         | PHC635     | 7660       | 74.9  | mg/kg  | 11.10.17 06.57 |      | 5   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 98         | %     | 70-135 | 11.10.17 06.57 |      |     |
| o-Terphenyl                       | 84-15-1    | 100        | %     | 70-135 | 11.10.17 06.57 |      |     |

Analytical Method: BTEX by EPA 8021B  
Tech: ALJ  
Analyst: ALJ  
Seq Number: 3033304

Prep Method: SW5030B  
% Moisture:  
Date Prep: 11.13.17 16.45  
Basis: Wet Weight

| Parameter            | Cas Number | Result     | RL      | Units  | Analysis Date  | Flag | Dil |
|----------------------|------------|------------|---------|--------|----------------|------|-----|
| Benzene              | 71-43-2    | <0.00199   | 0.00199 | mg/kg  | 11.14.17 07.59 | U    | 1   |
| Toluene              | 108-88-3   | <0.00199   | 0.00199 | mg/kg  | 11.14.17 07.59 | U    | 1   |
| Ethylbenzene         | 100-41-4   | <0.00199   | 0.00199 | mg/kg  | 11.14.17 07.59 | U    | 1   |
| Xylenes, Total       | 1330-20-7  | 0.0711     | 0.00199 | mg/kg  | 11.14.17 07.59 |      | 1   |
| Total BTEX           |            | 0.0711     | 0.00199 | mg/kg  | 11.14.17 07.59 |      | 1   |
| Surrogate            | Cas Number | % Recovery | Units   | Limits | Analysis Date  | Flag |     |
| 1,4-Difluorobenzene  | 540-36-3   | 89         | %       | 80-120 | 11.14.17 07.59 |      |     |
| 4-Bromofluorobenzene | 460-00-4   | 115        | %       | 80-120 | 11.14.17 07.59 |      |     |



# Certificate of Analytical Results 567730



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: **EW-2 6"**  
Lab Sample Id: 567730-011

Matrix: Soil  
Date Collected: 11.06.17 15.50

Date Received: 11.08.17 09.40

Analytical Method: Chloride by EPA 300  
Tech: MNV  
Analyst: MNV  
Seq Number: 3033077

Prep Method: E300P  
% Moisture:  
Basis: Wet Weight  
Date Prep: 11.10.17 15.00

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 53.7   | 4.99 | mg/kg | 11.10.17 23.20 |      | 1   |

Analytical Method: TPH by SW8015 Mod  
Tech: ARM  
Analyst: ARM  
Seq Number: 3032958

Prep Method: TX1005P  
% Moisture:  
Basis: Wet Weight  
Date Prep: 11.09.17 17.00

| Parameter                         | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|-----------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610            | <15.0             | 15.0         | mg/kg         | 11.10.17 00.40       | U           | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO         | 132               | 15.0         | mg/kg         | 11.10.17 00.40       |             | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835          | 23.5              | 15.0         | mg/kg         | 11.10.17 00.40       |             | 1   |
| Total TPH                         | PHC635            | 155.5             | 15           | mg/kg         | 11.10.17 00.40       |             | 1   |
| <b>Surrogate</b>                  | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1-Chlorooctane                    | 111-85-3          | 101               | %            | 70-135        | 11.10.17 00.40       |             |     |
| o-Terphenyl                       | 84-15-1           | 97                | %            | 70-135        | 11.10.17 00.40       |             |     |

Analytical Method: BTEX by EPA 8021B  
Tech: ALJ  
Analyst: ALJ  
Seq Number: 3033304

Prep Method: SW5030B  
% Moisture:  
Basis: Wet Weight  
Date Prep: 11.13.17 16.45

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 11.14.17 08.18       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 11.14.17 08.18       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 11.14.17 08.18       | U           | 1   |
| Xylenes, Total       | 1330-20-7         | <0.002            | 0.002        | mg/kg         | 11.14.17 08.18       | U           | 1   |
| Total BTEX           |                   | <0.002            | 0.002        | mg/kg         | 11.14.17 08.18       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 103               | %            | 80-120        | 11.14.17 08.18       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 97                | %            | 80-120        | 11.14.17 08.18       |             |     |



# Certificate of Analytical Results 567730



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: SW-2 6"  
Lab Sample Id: 567730-012

Matrix: Soil  
Date Collected: 11.06.17 15.55

Date Received: 11.08.17 09.40

Analytical Method: Chloride by EPA 300  
Tech: MNV  
Analyst: MNV  
Seq Number: 3033080

Prep Method: E300P  
% Moisture:  
Date Prep: 11.10.17 15.30  
Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 319    | 4.95 | mg/kg | 11.10.17 23.58 |      | 1   |

Analytical Method: TPH by SW8015 Mod  
Tech: ARM  
Analyst: ARM  
Seq Number: 3032958

Prep Method: TX1005P  
% Moisture:  
Date Prep: 11.09.17 17.00  
Basis: Wet Weight

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0      | 15.0  | mg/kg  | 11.10.17 01.00 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 129        | 15.0  | mg/kg  | 11.10.17 01.00 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 15.5       | 15.0  | mg/kg  | 11.10.17 01.00 |      | 1   |
| Total TPH                         | PHC635     | 144.5      | 15    | mg/kg  | 11.10.17 01.00 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 101        | %     | 70-135 | 11.10.17 01.00 |      |     |
| o-Terphenyl                       | 84-15-1    | 95         | %     | 70-135 | 11.10.17 01.00 |      |     |

Analytical Method: BTEX by EPA 8021B  
Tech: ALJ  
Analyst: ALJ  
Seq Number: 3033304

Prep Method: SW5030B  
% Moisture:  
Date Prep: 11.13.17 16.45  
Basis: Wet Weight

| Parameter            | Cas Number | Result     | RL      | Units  | Analysis Date  | Flag | Dil |
|----------------------|------------|------------|---------|--------|----------------|------|-----|
| Benzene              | 71-43-2    | <0.00201   | 0.00201 | mg/kg  | 11.14.17 08.37 | U    | 1   |
| Toluene              | 108-88-3   | <0.00201   | 0.00201 | mg/kg  | 11.14.17 08.37 | U    | 1   |
| Ethylbenzene         | 100-41-4   | <0.00201   | 0.00201 | mg/kg  | 11.14.17 08.37 | U    | 1   |
| Xylenes, Total       | 1330-20-7  | <0.00201   | 0.00201 | mg/kg  | 11.14.17 08.37 | U    | 1   |
| Total BTEX           |            | <0.00201   | 0.00201 | mg/kg  | 11.14.17 08.37 | U    | 1   |
| Surrogate            | Cas Number | % Recovery | Units   | Limits | Analysis Date  | Flag |     |
| 4-Bromofluorobenzene | 460-00-4   | 88         | %       | 80-120 | 11.14.17 08.37 |      |     |
| 1,4-Difluorobenzene  | 540-36-3   | 98         | %       | 80-120 | 11.14.17 08.37 |      |     |



# Certificate of Analytical Results 567730



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: **BH-4 6"** Matrix: Soil Date Received: 11.08.17 09.40  
Lab Sample Id: 567730-013 Date Collected: 11.06.17 16.00  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MNV % Moisture:  
Analyst: MNV Date Prep: 11.10.17 15.30 Basis: Wet Weight  
Seq Number: 3033080

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 274    | 4.97 | mg/kg | 11.11.17 00.17 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 11.09.17 17.00 Basis: Wet Weight  
Seq Number: 3032958

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0  | 15.0 | mg/kg | 11.10.17 01.20 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 641    | 15.0 | mg/kg | 11.10.17 01.20 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 75.0   | 15.0 | mg/kg | 11.10.17 01.20 |      | 1   |
| Total TPH                         | PHC635     | 716    | 15   | mg/kg | 11.10.17 01.20 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 101        | %     | 70-135 | 11.10.17 01.20 |      |
| o-Terphenyl    | 84-15-1    | 95         | %     | 70-135 | 11.10.17 01.20 |      |

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B  
Tech: ALJ % Moisture:  
Analyst: ALJ Date Prep: 11.13.17 16.45 Basis: Wet Weight  
Seq Number: 3033304

| Parameter      | Cas Number | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|----------------|------------|----------|---------|-------|----------------|------|-----|
| Benzene        | 71-43-2    | <0.00202 | 0.00202 | mg/kg | 11.14.17 08.56 | U    | 1   |
| Toluene        | 108-88-3   | <0.00202 | 0.00202 | mg/kg | 11.14.17 08.56 | U    | 1   |
| Ethylbenzene   | 100-41-4   | <0.00202 | 0.00202 | mg/kg | 11.14.17 08.56 | U    | 1   |
| Xylenes, Total | 1330-20-7  | <0.00202 | 0.00202 | mg/kg | 11.14.17 08.56 | U    | 1   |
| Total BTEX     |            | <0.00202 | 0.00202 | mg/kg | 11.14.17 08.56 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 93         | %     | 80-120 | 11.14.17 08.56 |      |
| 4-Bromofluorobenzene | 460-00-4   | 92         | %     | 80-120 | 11.14.17 08.56 |      |



# Certificate of Analytical Results 567730



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: **NW-3 3'** Matrix: Soil Date Received: 11.08.17 09.40  
Lab Sample Id: 567730-014 Date Collected: 11.06.17 16.05  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MNV % Moisture:  
Analyst: MNV Date Prep: 11.10.17 15.30 Basis: Wet Weight  
Seq Number: 3033080

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 6.25   | 4.93 | mg/kg | 11.11.17 00.24 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 11.09.17 17.00 Basis: Wet Weight  
Seq Number: 3032958

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0  | 15.0 | mg/kg | 11.10.17 01.40 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | <15.0  | 15.0 | mg/kg | 11.10.17 01.40 | U    | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0  | 15.0 | mg/kg | 11.10.17 01.40 | U    | 1   |
| Total TPH                         | PHC635     | <15    | 15   | mg/kg | 11.10.17 01.40 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 97         | %     | 70-135 | 11.10.17 01.40 |      |
| o-Terphenyl    | 84-15-1    | 96         | %     | 70-135 | 11.10.17 01.40 |      |

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B  
Tech: ALJ % Moisture:  
Analyst: ALJ Date Prep: 11.13.17 16.45 Basis: Wet Weight  
Seq Number: 3033304

| Parameter      | Cas Number | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|----------------|------------|----------|---------|-------|----------------|------|-----|
| Benzene        | 71-43-2    | <0.00200 | 0.00200 | mg/kg | 11.14.17 09.15 | U    | 1   |
| Toluene        | 108-88-3   | <0.00200 | 0.00200 | mg/kg | 11.14.17 09.15 | U    | 1   |
| Ethylbenzene   | 100-41-4   | <0.00200 | 0.00200 | mg/kg | 11.14.17 09.15 | U    | 1   |
| Xylenes, Total | 1330-20-7  | <0.002   | 0.002   | mg/kg | 11.14.17 09.15 | U    | 1   |
| Total BTEX     |            | <0.002   | 0.002   | mg/kg | 11.14.17 09.15 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 84         | %     | 80-120 | 11.14.17 09.15 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 107        | %     | 80-120 | 11.14.17 09.15 |      |



# Certificate of Analytical Results 567730



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: **EW-3 3'** Matrix: Soil Date Received: 11.08.17 09.40  
Lab Sample Id: 567730-015 Date Collected: 11.06.17 16.10  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MNV % Moisture:  
Analyst: MNV Date Prep: 11.16.17 10.00 Basis: Wet Weight  
Seq Number: 3033525

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 1160   | 25.0 | mg/kg | 11.16.17 15.01 |      | 5   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 11.09.17 17.00 Basis: Wet Weight  
Seq Number: 3032958

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <14.9  | 14.9 | mg/kg | 11.10.17 02.01 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 87.6   | 14.9 | mg/kg | 11.10.17 02.01 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <14.9  | 14.9 | mg/kg | 11.10.17 02.01 | U    | 1   |
| Total TPH                         | PHC635     | 87.6   | 14.9 | mg/kg | 11.10.17 02.01 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 102        | %     | 70-135 | 11.10.17 02.01 |      |
| o-Terphenyl    | 84-15-1    | 93         | %     | 70-135 | 11.10.17 02.01 |      |

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B  
Tech: ALJ % Moisture:  
Analyst: ALJ Date Prep: 11.13.17 16.45 Basis: Wet Weight  
Seq Number: 3033304

| Parameter      | Cas Number | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|----------------|------------|----------|---------|-------|----------------|------|-----|
| Benzene        | 71-43-2    | <0.00339 | 0.00339 | mg/kg | 11.14.17 12.29 | U    | 1   |
| Toluene        | 108-88-3   | <0.00339 | 0.00339 | mg/kg | 11.14.17 12.29 | U    | 1   |
| Ethylbenzene   | 100-41-4   | <0.00339 | 0.00339 | mg/kg | 11.14.17 12.29 | U    | 1   |
| Xylenes, Total | 1330-20-7  | <0.00339 | 0.00339 | mg/kg | 11.14.17 12.29 | U    | 1   |
| Total BTEX     |            | <0.00339 | 0.00339 | mg/kg | 11.14.17 12.29 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 96         | %     | 80-120 | 11.14.17 12.29 |      |
| 4-Bromofluorobenzene | 460-00-4   | 97         | %     | 80-120 | 11.14.17 12.29 |      |



# Certificate of Analytical Results 567730



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: SW-3 3' Matrix: Soil Date Received: 11.08.17 09.40  
Lab Sample Id: 567730-016 Date Collected: 11.06.17 16.15  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MNV % Moisture:  
Analyst: MNV Date Prep: 11.10.17 15.30 Basis: Wet Weight  
Seq Number: 3033080

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 66.1   | 4.92 | mg/kg | 11.11.17 00.37 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 11.09.17 17.00 Basis: Wet Weight  
Seq Number: 3032958

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0  | 15.0 | mg/kg | 11.10.17 02.21 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | <15.0  | 15.0 | mg/kg | 11.10.17 02.21 | U    | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0  | 15.0 | mg/kg | 11.10.17 02.21 | U    | 1   |
| Total TPH                         | PHC635     | <15    | 15   | mg/kg | 11.10.17 02.21 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 105        | %     | 70-135 | 11.10.17 02.21 |      |
| o-Terphenyl    | 84-15-1    | 97         | %     | 70-135 | 11.10.17 02.21 |      |

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B  
Tech: ALJ % Moisture:  
Analyst: ALJ Date Prep: 11.13.17 16.45 Basis: Wet Weight  
Seq Number: 3033304

| Parameter      | Cas Number | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|----------------|------------|----------|---------|-------|----------------|------|-----|
| Benzene        | 71-43-2    | <0.00201 | 0.00201 | mg/kg | 11.14.17 09.53 | U    | 1   |
| Toluene        | 108-88-3   | <0.00201 | 0.00201 | mg/kg | 11.14.17 09.53 | U    | 1   |
| Ethylbenzene   | 100-41-4   | <0.00201 | 0.00201 | mg/kg | 11.14.17 09.53 | U    | 1   |
| Xylenes, Total | 1330-20-7  | <0.00201 | 0.00201 | mg/kg | 11.14.17 09.53 | U    | 1   |
| Total BTEX     |            | <0.00201 | 0.00201 | mg/kg | 11.14.17 09.53 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 97         | %     | 80-120 | 11.14.17 09.53 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 102        | %     | 80-120 | 11.14.17 09.53 |      |



# Certificate of Analytical Results 567730



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: **WW-2 3'**  
Lab Sample Id: 567730-017

Matrix: Soil  
Date Collected: 11.06.17 16.20

Date Received: 11.08.17 09.40

Analytical Method: Chloride by EPA 300  
Tech: MNV  
Analyst: MNV  
Seq Number: 3033080

Prep Method: E300P  
% Moisture:  
Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 10.9   | 4.93 | mg/kg | 11.11.17 00.56 |      | 1   |

Analytical Method: TPH by SW8015 Mod  
Tech: ARM  
Analyst: ARM  
Seq Number: 3033118

Prep Method: TX1005P  
% Moisture:  
Basis: Wet Weight

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0  | 15.0 | mg/kg | 11.12.17 08.57 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | <15.0  | 15.0 | mg/kg | 11.12.17 08.57 | U    | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0  | 15.0 | mg/kg | 11.12.17 08.57 | U    | 1   |
| Total TPH                         | PHC635     | <15    | 15   | mg/kg | 11.12.17 08.57 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 93         | %     | 70-135 | 11.12.17 08.57 |      |
| o-Terphenyl    | 84-15-1    | 92         | %     | 70-135 | 11.12.17 08.57 |      |

Analytical Method: BTEX by EPA 8021B  
Tech: ALJ  
Analyst: ALJ  
Seq Number: 3033304

Prep Method: SW5030B  
% Moisture:  
Basis: Wet Weight

| Parameter      | Cas Number | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|----------------|------------|----------|---------|-------|----------------|------|-----|
| Benzene        | 71-43-2    | <0.00200 | 0.00200 | mg/kg | 11.14.17 07.40 | U    | 1   |
| Toluene        | 108-88-3   | <0.00200 | 0.00200 | mg/kg | 11.14.17 07.40 | U    | 1   |
| Ethylbenzene   | 100-41-4   | <0.00200 | 0.00200 | mg/kg | 11.14.17 07.40 | U    | 1   |
| Xylenes, Total | 1330-20-7  | <0.002   | 0.002   | mg/kg | 11.14.17 07.40 | U    | 1   |
| Total BTEX     |            | <0.002   | 0.002   | mg/kg | 11.14.17 07.40 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 81         | %     | 80-120 | 11.14.17 07.40 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 97         | %     | 80-120 | 11.14.17 07.40 |      |

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

**MDL** Method Detection Limit      **SDL** Sample Detection Limit      **LOD** Limit of Detection

**PQL** Practical Quantitation Limit      **MQL** Method Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

+ NELAC certification not offered for this compound.

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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TRC Solutions, Inc  
Gunslinger 11 Federal Com #001H (3/18/17)

## Analytical Method: Chloride by EPA 300

Seq Number: 3032929

MB Sample Id: 7634115-1-BLK

Matrix: Solid

LCS Sample Id: 7634115-1-BKS

Prep Method: E300P

Date Prep: 11.09.17

LCSD Sample Id: 7634115-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Chloride  | <5.00     | 250          | 255        | 102      | 256         | 102       | 90-110 | 0    | 20        | mg/kg | 11.09.17 11:55 |      |

## Analytical Method: Chloride by EPA 300

Seq Number: 3033077

MB Sample Id: 7634186-1-BLK

Matrix: Solid

LCS Sample Id: 7634186-1-BKS

Prep Method: E300P

Date Prep: 11.10.17

LCSD Sample Id: 7634186-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Chloride  | <5.00     | 250          | 275        | 110      | 256         | 102       | 90-110 | 7    | 20        | mg/kg | 11.10.17 20:15 |      |

## Analytical Method: Chloride by EPA 300

Seq Number: 3033080

MB Sample Id: 7634193-1-BLK

Matrix: Solid

LCS Sample Id: 7634193-1-BKS

Prep Method: E300P

Date Prep: 11.10.17

LCSD Sample Id: 7634193-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Chloride  | <5.00     | 250          | 256        | 102      | 274         | 110       | 90-110 | 7    | 20        | mg/kg | 11.10.17 23:46 |      |

## Analytical Method: Chloride by EPA 300

Seq Number: 3033525

MB Sample Id: 7634509-1-BLK

Matrix: Solid

LCS Sample Id: 7634509-1-BKS

Prep Method: E300P

Date Prep: 11.16.17

LCSD Sample Id: 7634509-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Chloride  | <5.00     | 250          | 248        | 99       | 248         | 99        | 90-110 | 0    | 20        | mg/kg | 11.16.17 12:15 |      |

## Analytical Method: Chloride by EPA 300

Seq Number: 3032929

Parent Sample Id: 566621-008

Matrix: Soil

MS Sample Id: 566621-008 S

Prep Method: E300P

Date Prep: 11.09.17

MSD Sample Id: 566621-008 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 297           | 247          | 538       | 98      | 536        | 97       | 90-110 | 0    | 20        | mg/kg | 11.09.17 12:14 |      |

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery $[D] = 100 * (C - A) / B$   
 $RPD = 200 * | (C - E) / (C + E) |$   
 $[D] = 100 * (C) / [B]$ LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD ResultMS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec



## QC Summary 567730

TRC Solutions, Inc  
Gunslinger 11 Federal Com #001H (3/18/17)

**Analytical Method: Chloride by EPA 300**

Seq Number: 3032929

Parent Sample Id: 566990-004

Matrix: Soil

MS Sample Id: 566990-004 S

Prep Method: E300P

Date Prep: 11.09.17

MSD Sample Id: 566990-004 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 759           | 249          | 966       | 83      | 965        | 83       | 90-110 | 0    | 20        | mg/kg | 11.09.17 13:43 | X    |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3033077

Parent Sample Id: 567704-020

Matrix: Soil

MS Sample Id: 567704-020 S

Prep Method: E300P

Date Prep: 11.10.17

MSD Sample Id: 567704-020 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 517           | 248          | 734       | 88      | 735        | 88       | 90-110 | 0    | 20        | mg/kg | 11.10.17 20:34 | X    |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3033077

Parent Sample Id: 567704-023

Matrix: Soil

MS Sample Id: 567704-023 S

Prep Method: E300P

Date Prep: 11.10.17

MSD Sample Id: 567704-023 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 30.2          | 249          | 296       | 107     | 298        | 108      | 90-110 | 1    | 20        | mg/kg | 11.10.17 22:03 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3033080

Parent Sample Id: 567730-012

Matrix: Soil

MS Sample Id: 567730-012 S

Prep Method: E300P

Date Prep: 11.10.17

MSD Sample Id: 567730-012 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 319           | 248          | 594       | 111     | 557        | 96       | 90-110 | 6    | 20        | mg/kg | 11.11.17 00:05 | X    |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3033080

Parent Sample Id: 567753-015

Matrix: Soil

MS Sample Id: 567753-015 S

Prep Method: E300P

Date Prep: 11.10.17

MSD Sample Id: 567753-015 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 7.46          | 246          | 272       | 108     | 265        | 105      | 90-110 | 3    | 20        | mg/kg | 11.11.17 01:34 |      |

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery

$[D] = 100 * (C-A) / B$   
 $RPD = 200 * | (C-E) / (C+E) |$   
 $[D] = 100 * (C) / [B]$

LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD Result

MS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec

TRC Solutions, Inc  
Gunslinger 11 Federal Com #001H (3/18/17)

## Analytical Method: Chloride by EPA 300

Seq Number: 3033525

Parent Sample Id: 568301-002

Matrix: Soil

MS Sample Id: 568301-002 S

Prep Method: E300P

Date Prep: 11.16.17

MSD Sample Id: 568301-002 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 327           | 249          | 566       | 96      | 551        | 90       | 90-110 | 3    | 20        | mg/kg | 11.16.17 12:33 |      |

## Analytical Method: Chloride by EPA 300

Seq Number: 3033525

Parent Sample Id: 568372-017

Matrix: Soil

MS Sample Id: 568372-017 S

Prep Method: E300P

Date Prep: 11.16.17

MSD Sample Id: 568372-017 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 217           | 249          | 449       | 93      | 449        | 93       | 90-110 | 0    | 20        | mg/kg | 11.16.17 13:56 |      |

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3032958

MB Sample Id: 7634170-1-BLK

Matrix: Solid

LCS Sample Id: 7634170-1-BKS

Prep Method: TX1005P

Date Prep: 11.09.17

LCSD Sample Id: 7634170-1-BSD

| Parameter                         | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <15.0     | 1000         | 1050       | 105      | 975         | 98        | 70-135 | 7    | 35        | mg/kg | 11.09.17 19:13 |      |
| Diesel Range Organics (DRO)       | <15.0     | 1000         | 1110       | 111      | 1090        | 109       | 70-135 | 2    | 35        | mg/kg | 11.09.17 19:13 |      |

| Surrogate      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 105     |         | 110      |          | 102       |           | 70-135 | %     | 11.09.17 19:13 |
| o-Terphenyl    | 105     |         | 103      |          | 98        |           | 70-135 | %     | 11.09.17 19:13 |

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3033118

MB Sample Id: 7634279-1-BLK

Matrix: Solid

LCS Sample Id: 7634279-1-BKS

Prep Method: TX1005P

Date Prep: 11.11.17

LCSD Sample Id: 7634279-1-BSD

| Parameter                         | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <15.0     | 1000         | 941        | 94       | 978         | 98        | 70-135 | 4    | 35        | mg/kg | 11.12.17 01:26 |      |
| Diesel Range Organics (DRO)       | <15.0     | 1000         | 986        | 99       | 1030        | 103       | 70-135 | 4    | 35        | mg/kg | 11.12.17 01:26 |      |

| Surrogate      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 104     |         | 95       |          | 98        |           | 70-135 | %     | 11.12.17 01:26 |
| o-Terphenyl    | 109     |         | 95       |          | 97        |           | 70-135 | %     | 11.12.17 01:26 |

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery $[D] = 100 * (C - A) / B$   
 $RPD = 200 * |(C - E) / (C + E)|$   
 $[D] = 100 * (C) / [B]$ LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD ResultMS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec



## QC Summary 567730

### TRC Solutions, Inc Gunslinger 11 Federal Com #001H (3/18/17)

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3032958

Parent Sample Id: 567730-001

Matrix: Soil

MS Sample Id: 567730-001 S

Prep Method: TX1005P

Date Prep: 11.09.17

MSD Sample Id: 567730-001 SD

| Parameter                         | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <15.0         | 998          | 931       | 93      | 975        | 98       | 70-135 | 5    | 35        | mg/kg | 11.09.17 20:14 |      |
| Diesel Range Organics (DRO)       | 146           | 998          | 1160      | 102     | 1160       | 102      | 70-135 | 0    | 35        | mg/kg | 11.09.17 20:14 |      |

**Surrogate**

|                | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 103     |         | 101      |          | 70-135 | %     | 11.09.17 20:14 |
| o-Terphenyl    | 94      |         | 90       |          | 70-135 | %     | 11.09.17 20:14 |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3033118

Parent Sample Id: 568067-021

Matrix: Soil

MS Sample Id: 568067-021 S

Prep Method: TX1005P

Date Prep: 11.11.17

MSD Sample Id: 568067-021 SD

| Parameter                         | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <15.0         | 999          | 819       | 82      | 914        | 91       | 70-135 | 11   | 35        | mg/kg | 11.12.17 02:30 |      |
| Diesel Range Organics (DRO)       | <15.0         | 999          | 877       | 88      | 946        | 95       | 70-135 | 8    | 35        | mg/kg | 11.12.17 02:30 |      |

**Surrogate**

|                | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 85      |         | 90       |          | 70-135 | %     | 11.12.17 02:30 |
| o-Terphenyl    | 85      |         | 88       |          | 70-135 | %     | 11.12.17 02:30 |

**Analytical Method: BTEX by EPA 8021B**

Seq Number: 3032942

MB Sample Id: 7634163-1-BLK

Matrix: Solid

LCS Sample Id: 7634163-1-BKS

Prep Method: SW5030B

Date Prep: 11.10.17

LCSD Sample Id: 7634163-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00199  | 0.0996       | 0.0917     | 92       | 0.0949      | 95        | 70-130 | 3    | 35        | mg/kg | 11.10.17 07:24 |      |
| Toluene      | <0.00199  | 0.0996       | 0.0904     | 91       | 0.0939      | 94        | 70-130 | 4    | 35        | mg/kg | 11.10.17 07:24 |      |
| Ethylbenzene | <0.00199  | 0.0996       | 0.0945     | 95       | 0.0982      | 98        | 71-129 | 4    | 35        | mg/kg | 11.10.17 07:24 |      |

**Surrogate**

|                      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 88      |         | 95       |          | 111       |           | 80-120 | %     | 11.10.17 07:24 |
| 4-Bromofluorobenzene | 86      |         | 89       |          | 106       |           | 80-120 | %     | 11.10.17 07:24 |

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery

$[D] = 100 * (C - A) / B$   
 $RPD = 200 * |(C - E) / (C + E)|$   
 $[D] = 100 * (C) / [B]$

LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD Result

MS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec



# QC Summary 567730

## TRC Solutions, Inc Gunslinger 11 Federal Com #001H (3/18/17)

Analytical Method: BTEX by EPA 8021B

Seq Number: 3033304

MB Sample Id: 7634374-1-BLK

Matrix: Solid

LCS Sample Id: 7634374-1-BKS

Prep Method: SW5030B

Date Prep: 11.13.17

LCSD Sample Id: 7634374-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00200  | 0.0998       | 0.0869     | 87       | 0.0869      | 87        | 70-130 | 0    | 35        | mg/kg | 11.14.17 03:38 |      |
| Toluene      | <0.00200  | 0.0998       | 0.0871     | 87       | 0.0898      | 90        | 70-130 | 3    | 35        | mg/kg | 11.14.17 03:38 |      |
| Ethylbenzene | <0.00200  | 0.0998       | 0.0877     | 88       | 0.0897      | 90        | 71-129 | 2    | 35        | mg/kg | 11.14.17 03:38 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 103     |         | 103      |          | 102       |           | 80-120 | %     | 11.14.17 03:38 |
| 4-Bromofluorobenzene | 88      |         | 96       |          | 92        |           | 80-120 | %     | 11.14.17 03:38 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3032942

Parent Sample Id: 567976-002

Matrix: Soil

MS Sample Id: 567976-002 S

Prep Method: SW5030B

Date Prep: 11.10.17

MSD Sample Id: 567976-002 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00202      | 0.101        | 0.115     | 114     | 0.123      | 123      | 70-130 | 7    | 35        | mg/kg | 11.10.17 08:01 |      |
| Toluene      | <0.00202      | 0.101        | 0.0997    | 99      | 0.110      | 110      | 70-130 | 10   | 35        | mg/kg | 11.10.17 08:01 |      |
| Ethylbenzene | <0.00202      | 0.101        | 0.0907    | 90      | 0.0984     | 98       | 71-129 | 8    | 35        | mg/kg | 11.10.17 08:01 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 94      |         | 93       |          | 80-120 | %     | 11.10.17 08:01 |
| 4-Bromofluorobenzene | 92      |         | 84       |          | 80-120 | %     | 11.10.17 08:01 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3033304

Parent Sample Id: 567730-017

Matrix: Soil

MS Sample Id: 567730-017 S

Prep Method: SW5030B

Date Prep: 11.13.17

MSD Sample Id: 567730-017 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00202      | 0.101        | 0.0773    | 77      | 0.0663     | 66       | 70-130 | 15   | 35        | mg/kg | 11.14.17 04:15 | X    |
| Toluene      | <0.00202      | 0.101        | 0.0668    | 66      | 0.0556     | 56       | 70-130 | 18   | 35        | mg/kg | 11.14.17 04:15 | X    |
| Ethylbenzene | <0.00202      | 0.101        | 0.0712    | 70      | 0.0610     | 61       | 71-129 | 15   | 35        | mg/kg | 11.14.17 04:15 | X    |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 102     |         | 89       |          | 80-120 | %     | 11.14.17 04:15 |
| 4-Bromofluorobenzene | 94      |         | 84       |          | 80-120 | %     | 11.14.17 04:15 |

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery

$[D] = 100 * (C-A) / B$   
 $RPD = 200 * | (C-E) / (C+E) |$   
 $[D] = 100 * (C) / [B]$

LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD Result

MS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec



Setting the Standard since 1990

Stafford, Texas (281-240-4200)

Dallas Texas (214-902-0300)

# CHAIN OF CUSTODY

Page 1 Of 2

San Antonio, Texas (210-509-3334)

Midland, Texas (432-704-5251)

Phoenix, Arizona (480-355-0900)

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Xenco Quote # Xenco Job # **567730**

| Client / Reporting Information                                                                          |                 | Project Information                                                                                                                                                          |       | Analytical Information                                                                                                                                                                                                                                                                                                                                                      |        |                   |     |                            |      |                                     |      |                       |      | Matrix Codes         |   |              |  |
|---------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------|-----|----------------------------|------|-------------------------------------|------|-----------------------|------|----------------------|---|--------------|--|
| Company Name / Branch:<br><b>TRC</b>                                                                    |                 | Project Name/Number:<br><b>Gunslinger 11 Federal Com #001H (3/18/17)</b>                                                                                                     |       | <div style="display: flex; justify-content: space-between;"> <div> TPH 8015M EXT 36<br/>BTEX 8021B<br/>Chloride E300.0 </div> <div> W = Water<br/>S = Soil/Sed/Solid<br/>GW = Ground Water<br/>DW = Drinking Water<br/>P = Product<br/>SW = Surface water<br/>SL = Sludge<br/>OW = Ocean/Sea Water<br/>WI = Wipe<br/>O = Oil<br/>WW = Waste Water<br/>A = Air </div> </div> |        |                   |     |                            |      |                                     |      |                       |      |                      |   |              |  |
| Company Address:<br><b>2057 Commerce Drive<br/>Midland, Texas 79703</b>                                 |                 | Project Location:<br><b>Lea County, NM</b>                                                                                                                                   |       |                                                                                                                                                                                                                                                                                                                                                                             |        |                   |     |                            |      |                                     |      |                       |      |                      |   |              |  |
| Email:<br><a href="mailto:ngreen@trcsolutions.com">ngreen@trcsolutions.com</a>                          |                 | Phone No:<br><b>432-664-6699</b>                                                                                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                             |        |                   |     |                            |      |                                     |      |                       |      |                      |   |              |  |
| Project Contact:<br><b>Nikki Green</b>                                                                  |                 | Invoice To:<br><b>Rebecca Haskell with COG Operating LLC rhaskell@concho.com<br/>600 W Illinois Avenue   Midland, TX 79701<br/>Direct: 432-818-2372   Main: 432-683-7443</b> |       |                                                                                                                                                                                                                                                                                                                                                                             |        |                   |     |                            |      |                                     |      |                       |      |                      |   |              |  |
| Samplers's Name: <b>Nikki Green</b>                                                                     |                 | PO Number:                                                                                                                                                                   |       |                                                                                                                                                                                                                                                                                                                                                                             |        |                   |     |                            |      |                                     |      |                       |      |                      |   |              |  |
| Field ID / Point of Collection                                                                          |                 | Collection                                                                                                                                                                   |       | Number of preserved bottles                                                                                                                                                                                                                                                                                                                                                 |        |                   |     |                            |      |                                     |      |                       |      | Field Comments       |   |              |  |
| No.                                                                                                     |                 | Sample Depth                                                                                                                                                                 | Date  | Time                                                                                                                                                                                                                                                                                                                                                                        | Matrix | # of bottles      | HCl | NaOH/Zn Acetate            | HNO3 | H2SO4                               | NaOH | NaHSO4                | MEOH | NONE                 |   |              |  |
| 1                                                                                                       | BH-1 6"         |                                                                                                                                                                              | 6-Nov | 1500                                                                                                                                                                                                                                                                                                                                                                        | S      | 1                 |     |                            |      |                                     |      |                       |      | x                    | x | x            |  |
| 2                                                                                                       | NW-1 3"         |                                                                                                                                                                              | 6-Nov | 1505                                                                                                                                                                                                                                                                                                                                                                        | S      | 1                 |     |                            |      |                                     |      |                       |      | x                    | x | x            |  |
| 3                                                                                                       | EW-1 3"         |                                                                                                                                                                              | 6-Nov | 1510                                                                                                                                                                                                                                                                                                                                                                        | S      | 1                 |     |                            |      |                                     |      |                       |      | x                    | x | x            |  |
| 4                                                                                                       | SW-1 3"         |                                                                                                                                                                              | 6-Nov | 1515                                                                                                                                                                                                                                                                                                                                                                        | S      | 1                 |     |                            |      |                                     |      |                       |      | x                    | x | x            |  |
| 5                                                                                                       | WW-1 3"         |                                                                                                                                                                              | 6-Nov | 1520                                                                                                                                                                                                                                                                                                                                                                        | S      | 1                 |     |                            |      |                                     |      |                       |      | x                    | x | x            |  |
| 6                                                                                                       | BH-2 Surface    |                                                                                                                                                                              | 6-Nov | 1525                                                                                                                                                                                                                                                                                                                                                                        | S      | 1                 |     |                            |      |                                     |      |                       |      | x                    | x | x            |  |
| 7                                                                                                       | South-1 Surface |                                                                                                                                                                              | 6-Nov | 1530                                                                                                                                                                                                                                                                                                                                                                        | S      | 1                 |     |                            |      |                                     |      |                       |      | x                    | x | x            |  |
| 8                                                                                                       | North-1 Surface |                                                                                                                                                                              | 6-Nov | 1535                                                                                                                                                                                                                                                                                                                                                                        | S      | 1                 |     |                            |      |                                     |      |                       |      | x                    | x | x            |  |
| 9                                                                                                       | BH-3 1'         |                                                                                                                                                                              | 6-Nov | 1540                                                                                                                                                                                                                                                                                                                                                                        | S      | 1                 |     |                            |      |                                     |      |                       |      | x                    | x | x            |  |
| 10                                                                                                      | NW-2 6"         |                                                                                                                                                                              | 6-Nov | 1545                                                                                                                                                                                                                                                                                                                                                                        | S      | 1                 |     |                            |      |                                     |      |                       |      | x                    | x | x            |  |
| Turnaround Time ( Business days)                                                                        |                 | Data Deliverable Information                                                                                                                                                 |       | Notes:                                                                                                                                                                                                                                                                                                                                                                      |        |                   |     |                            |      |                                     |      |                       |      |                      |   |              |  |
| <input type="checkbox"/> Same Day TAT <input type="checkbox"/> 5 Day TAT                                |                 | <input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> Level IV (Full Data Pkg /raw data)                                                              |       | Temp: <b>2.6</b> IR ID: R-8<br>CF: (0-6: -0.2°C)<br>(6-23: +0.2°C)<br>Corrected Temp: <b>2.4</b>                                                                                                                                                                                                                                                                            |        |                   |     |                            |      |                                     |      |                       |      |                      |   |              |  |
| <input type="checkbox"/> Next Day EMERGENCY <input type="checkbox"/> 7 Day TAT                          |                 | <input type="checkbox"/> Level III Std QC+ Forms <input type="checkbox"/> TRRP Level IV                                                                                      |       |                                                                                                                                                                                                                                                                                                                                                                             |        |                   |     |                            |      |                                     |      |                       |      |                      |   |              |  |
| <input type="checkbox"/> 2 Day EMERGENCY <input checked="" type="checkbox"/> Contract TAT               |                 | <input type="checkbox"/> Level 3 (CLP Forms) <input type="checkbox"/> UST / RG -411                                                                                          |       |                                                                                                                                                                                                                                                                                                                                                                             |        |                   |     |                            |      |                                     |      |                       |      |                      |   |              |  |
| <input type="checkbox"/> 3 Day EMERGENCY                                                                |                 | <input type="checkbox"/> TRRP Checklist                                                                                                                                      |       |                                                                                                                                                                                                                                                                                                                                                                             |        |                   |     |                            |      |                                     |      |                       |      |                      |   |              |  |
| TAT Starts Day received by Lab, if received by 5:00 pm                                                  |                 | FED-EX / UPS: Tracking #                                                                                                                                                     |       |                                                                                                                                                                                                                                                                                                                                                                             |        |                   |     |                            |      |                                     |      |                       |      |                      |   |              |  |
| SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY |                 |                                                                                                                                                                              |       |                                                                                                                                                                                                                                                                                                                                                                             |        |                   |     |                            |      |                                     |      |                       |      |                      |   |              |  |
| Relinquished by Sampler:                                                                                |                 | Date Time:                                                                                                                                                                   |       | Received By:                                                                                                                                                                                                                                                                                                                                                                |        | Relinquished By:  |     | Date Time:                 |      | Received By:                        |      | Relinquished By:      |      | Date Time:           |   | Received By: |  |
| 1 <i>Nikki Green</i>                                                                                    |                 | 11/8/17 9:23                                                                                                                                                                 |       | 1 <i>J. Kelly</i>                                                                                                                                                                                                                                                                                                                                                           |        | 2 <i>J. Kelly</i> |     | 11/8/17 09:40              |      | 2 <i>Conn Fleming</i>               |      | 3 <i>Conn Fleming</i> |      | 09:15                |   |              |  |
| 3                                                                                                       |                 |                                                                                                                                                                              |       | 3                                                                                                                                                                                                                                                                                                                                                                           |        | 4                 |     |                            |      | 4                                   |      | 5                     |      |                      |   |              |  |
| Relinquished by:                                                                                        |                 | Date Time:                                                                                                                                                                   |       | Received By:                                                                                                                                                                                                                                                                                                                                                                |        | Custody Seal #    |     | Preserved where applicable |      | On Ice                              |      | Cooler Temp.          |      | Thermo. Corr. Factor |   |              |  |
| 5                                                                                                       |                 |                                                                                                                                                                              |       | 5                                                                                                                                                                                                                                                                                                                                                                           |        |                   |     |                            |      | <input checked="" type="checkbox"/> |      |                       |      |                      |   |              |  |

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.





**XENCO Laboratories**  
**Prelogin/Nonconformance Report- Sample Log-In**



**Client:** TRC Solutions, Inc

**Date/ Time Received:** 11/08/2017 09:40:00 AM

**Work Order #:** 567730

**Acceptable Temperature Range:** 0 - 6 degC

**Air and Metal samples Acceptable Range:** Ambient

**Temperature Measuring device used :** R8

| Sample Receipt Checklist                                | Comments |
|---------------------------------------------------------|----------|
| #1 *Temperature of cooler(s)?                           | 2.4      |
| #2 *Shipping container in good condition?               | Yes      |
| #3 *Samples received on ice?                            | Yes      |
| #4 *Custody Seals intact on shipping container/ cooler? | N/A      |
| #5 Custody Seals intact on sample bottles?              | N/A      |
| #6 *Custody Seals Signed and dated?                     | N/A      |
| #7 *Chain of Custody present?                           | Yes      |
| #8 Any missing/extra samples?                           | No       |
| #9 Chain of Custody signed when relinquished/ received? | Yes      |
| #10 Chain of Custody agrees with sample labels/matrix?  | Yes      |
| #11 Container label(s) legible and intact?              | Yes      |
| #12 Samples in proper container/ bottle?                | Yes      |
| #13 Samples properly preserved?                         | Yes      |
| #14 Sample container(s) intact?                         | Yes      |
| #15 Sufficient sample amount for indicated test(s)?     | Yes      |
| #16 All samples received within hold time?              | Yes      |
| #17 Subcontract of sample(s)?                           | No       |
| #18 Water VOC samples have zero headspace?              | N/A      |

**\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

**Checklist completed by:**

Connie Hernandez

Date: 11/08/2017

**Checklist reviewed by:**

Mike Kimmel

Date: 11/11/2017



# Certificate of Analysis Summary 568121

TRC Solutions, Inc, Midland, TX

Project Name: Gunslinger 11 Federal Com #001H (3/18/17)



Project Id: 8021  
Contact: Nikki Green  
Project Location: Lea Co, NM

Date Received in Lab: Fri Nov-10-17 03:40 pm  
Report Date: 12-JAN-18  
Project Manager: Kelsey Brooks

| Analysis Requested                | Lab Id:    | 568121-001       | 568121-002       | 568121-003       | 568121-004       | 568121-005       | 568121-006       |
|-----------------------------------|------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                   | Field Id:  | SP-1             | SP-2             | SP-3             | SP-4             | SP-5             | SP-6             |
|                                   | Depth:     |                  |                  |                  |                  |                  |                  |
|                                   | Matrix:    | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             |
|                                   | Sampled:   | Nov-10-17 10:30  | Nov-10-17 10:40  | Nov-10-17 10:50  | Nov-10-17 11:00  | Nov-10-17 11:10  | Nov-10-17 11:20  |
| BTEX by EPA 8021B                 | Extracted: | Nov-14-17 16:50  | Nov-14-17 16:50  | Nov-15-17 11:30  | Nov-14-17 16:50  | Nov-14-17 16:50  | Nov-15-17 11:30  |
|                                   | Analyzed:  | Nov-15-17 08:46  | Nov-15-17 11:12  | Nov-16-17 01:29  | Nov-15-17 03:34  | Nov-15-17 08:08  | Nov-16-17 01:48  |
|                                   | Units/RL:  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Benzene                           |            | <0.00992 0.00992 | <0.00201 0.00201 | <0.00348 0.00348 | <0.00200 0.00200 | <0.00346 0.00346 | <0.00202 0.00202 |
| Toluene                           |            | 0.105 0.00992    | <0.00201 0.00201 | <0.00348 0.00348 | <0.00200 0.00200 | <0.00346 0.00346 | <0.00202 0.00202 |
| Ethylbenzene                      |            | 0.225 0.00992    | <0.00201 0.00201 | <0.00348 0.00348 | <0.00200 0.00200 | <0.00346 0.00346 | <0.00202 0.00202 |
| Xylenes, Total                    |            | 2.473 0.00992    | <0.00201 0.00201 | <0.00348 0.00348 | 0.00508 0.002    | <0.00346 0.00346 | 0.00889 0.00202  |
| Total BTEX                        |            | 2.803 0.00992    | <0.00201 0.00201 | <0.00348 0.00348 | 0.00508 0.002    | <0.00346 0.00346 | 0.00889 0.00202  |
| Chloride by EPA 300               | Extracted: | Nov-15-17 09:00  | Nov-15-17 09:00  | Nov-15-17 09:00  | Nov-15-17 09:00  | Nov-15-17 09:00  | Nov-15-17 09:00  |
|                                   | Analyzed:  | Nov-15-17 09:59  | Nov-15-17 10:18  | Nov-15-17 10:24  | Nov-15-17 10:30  | Nov-15-17 10:37  | Nov-15-17 10:56  |
|                                   | Units/RL:  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Chloride                          |            | 354 4.94         | 327 4.92         | 152 4.90         | 219 4.96         | 54.7 4.97        | 71.9 4.99        |
| TPH by SW8015 Mod                 | Extracted: | Nov-13-17 17:00  | Nov-13-17 17:00  | Nov-13-17 17:00  | Nov-13-17 17:00  | Nov-13-17 17:00  | Nov-13-17 17:00  |
|                                   | Analyzed:  | Nov-14-17 02:12  | Nov-14-17 02:33  | Nov-14-17 02:53  | Nov-14-17 03:14  | Nov-14-17 03:36  | Nov-14-17 04:40  |
|                                   | Units/RL:  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Gasoline Range Hydrocarbons (GRO) |            | 110 15.0         | 19.3 15.0        | 22.8 15.0        | <15.0 15.0       | <15.0 15.0       | 23.5 15.0        |
| Diesel Range Organics (DRO)       |            | 1430 15.0        | 1380 15.0        | 1650 15.0        | 1240 15.0        | 417 15.0         | 1660 15.0        |
| Oil Range Hydrocarbons (ORO)      |            | 203 15.0         | 207 15.0         | 270 15.0         | 205 15.0         | 40.3 15.0        | 283 15.0         |
| Total TPH                         |            | 1743 15          | 1606.3 15        | 1940 15          | 1445 15          | 457.3 15         | 1966.5 15        |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kelsey Brooks  
Project Manager



# Certificate of Analysis Summary 568121

TRC Solutions, Inc, Midland, TX

Project Name: Gunslinger 11 Federal Com #001H (3/18/17)



Project Id: 8021  
Contact: Nikki Green  
Project Location: Lea Co, NM

Date Received in Lab: Fri Nov-10-17 03:40 pm  
Report Date: 12-JAN-18  
Project Manager: Kelsey Brooks

| <i>Analysis Requested</i>         | <i>Lab Id:</i>    | 568121-007       | 568121-008       | 568121-009       | 568121-010       | 568121-011       | 568121-012       |
|-----------------------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                   | <i>Field Id:</i>  | SP-7             | SP-8             | SP-9             | SP-10            | SP-11            | SP-12            |
|                                   | <i>Depth:</i>     |                  |                  |                  |                  |                  |                  |
|                                   | <i>Matrix:</i>    | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             |
|                                   | <i>Sampled:</i>   | Nov-10-17 11:30  | Nov-10-17 11:40  | Nov-10-17 11:50  | Nov-10-17 12:00  | Nov-10-17 12:10  | Nov-10-17 12:20  |
| <b>BTEX by EPA 8021B</b>          | <i>Extracted:</i> | Nov-15-17 11:30  | Nov-14-17 16:50  | Nov-14-17 16:50  | Nov-14-17 16:50  | Nov-14-17 16:50  | Nov-14-17 16:50  |
|                                   | <i>Analyzed:</i>  | Nov-16-17 02:07  | Nov-15-17 10:53  | Nov-15-17 04:12  | Nov-15-17 04:31  | Nov-15-17 07:13  | Nov-15-17 10:34  |
|                                   | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Benzene                           |                   | <0.00200 0.00200 | <0.00201 0.00201 | <0.00200 0.00200 | <0.00344 0.00344 | <0.00200 0.00200 | <0.00332 0.00332 |
| Toluene                           |                   | <0.00200 0.00200 | <0.00201 0.00201 | <0.00200 0.00200 | <0.00344 0.00344 | <0.00200 0.00200 | <0.00332 0.00332 |
| Ethylbenzene                      |                   | 0.00299 0.00200  | <0.00201 0.00201 | <0.00200 0.00200 | <0.00344 0.00344 | <0.00200 0.00200 | <0.00332 0.00332 |
| Xylenes, Total                    |                   | 0.0105 0.002     | 0.01669 0.00201  | 0.0264 0.002     | <0.00344 0.00344 | 0.00752 0.002    | <0.00332 0.00332 |
| Total BTEX                        |                   | 0.01349 0.002    | 0.01669 0.00201  | 0.0264 0.002     | <0.00344 0.00344 | 0.00752 0.002    | <0.00332 0.00332 |
| <b>Chloride by EPA 300</b>        | <i>Extracted:</i> | Nov-15-17 09:00  | Nov-15-17 09:00  | Nov-15-17 09:00  | Nov-15-17 09:00  | Nov-15-17 09:00  | Nov-15-17 09:00  |
|                                   | <i>Analyzed:</i>  | Nov-15-17 11:02  | Nov-15-17 11:09  | Nov-15-17 11:15  | Nov-15-17 11:22  | Nov-15-17 11:28  | Nov-15-17 11:47  |
|                                   | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Chloride                          |                   | 74.2 4.93        | 52.0 4.93        | 51.3 4.96        | 95.0 4.93        | 31.6 4.99        | 31.3 5.00        |
| <b>TPH by SW8015 Mod</b>          | <i>Extracted:</i> | Nov-13-17 17:00  | Nov-13-17 17:00  | Nov-13-17 17:00  | Nov-13-17 17:00  | Nov-13-17 17:00  | Nov-13-17 17:00  |
|                                   | <i>Analyzed:</i>  | Nov-14-17 05:00  | Nov-14-17 05:20  | Nov-14-17 05:40  | Nov-14-17 06:00  | Nov-14-17 06:22  | Nov-14-17 06:42  |
|                                   | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Gasoline Range Hydrocarbons (GRO) |                   | 32.3 15.0        | 17.4 15.0        | <15.0 15.0       | <15.0 15.0       | <15.0 15.0       | <15.0 15.0       |
| Diesel Range Organics (DRO)       |                   | 1200 15.0        | 769 15.0         | 431 15.0         | 353 15.0         | 399 15.0         | 470 15.0         |
| Oil Range Hydrocarbons (ORO)      |                   | 179 15.0         | 103 15.0         | 53.0 15.0        | 71.3 15.0        | 54.0 15.0        | 63.9 15.0        |
| Total TPH                         |                   | 1411.3 15        | 889.4 15         | 484 15           | 424.3 15         | 453 15           | 533.9 15         |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Kelsey Brooks  
Project Manager



# Certificate of Analysis Summary 568121

TRC Solutions, Inc, Midland, TX

Project Name: Gunslinger 11 Federal Com #001H (3/18/17)



Project Id: 8021  
Contact: Nikki Green  
Project Location: Lea Co, NM

Date Received in Lab: Fri Nov-10-17 03:40 pm  
Report Date: 12-JAN-18  
Project Manager: Kelsey Brooks

|                                   |                                                                                                                                |  |  |  |  |  |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| <b>Analysis Requested</b>         | <b>Lab Id:</b> 568121-013<br><b>Field Id:</b> SP-13<br><b>Depth:</b><br><b>Matrix:</b> SOIL<br><b>Sampled:</b> Nov-10-17 12:30 |  |  |  |  |  |
| <b>BTEX by EPA 8021B</b>          | <b>Extracted:</b> Nov-14-17 16:50<br><b>Analyzed:</b> Nov-15-17 07:49<br><b>Units/RL:</b> mg/kg RL                             |  |  |  |  |  |
| Benzene                           | <0.00200 0.00200                                                                                                               |  |  |  |  |  |
| Toluene                           | <0.00200 0.00200                                                                                                               |  |  |  |  |  |
| Ethylbenzene                      | <0.00200 0.00200                                                                                                               |  |  |  |  |  |
| Xylenes, Total                    | <0.002 0.002                                                                                                                   |  |  |  |  |  |
| Total BTEX                        | <0.002 0.002                                                                                                                   |  |  |  |  |  |
| <b>Chloride by EPA 300</b>        | <b>Extracted:</b> Nov-15-17 09:00<br><b>Analyzed:</b> Nov-15-17 11:53<br><b>Units/RL:</b> mg/kg RL                             |  |  |  |  |  |
| Chloride                          | 132 4.99                                                                                                                       |  |  |  |  |  |
| <b>TPH by SW8015 Mod</b>          | <b>Extracted:</b> Nov-13-17 17:00<br><b>Analyzed:</b> Nov-14-17 07:02<br><b>Units/RL:</b> mg/kg RL                             |  |  |  |  |  |
| Gasoline Range Hydrocarbons (GRO) | <15.0 15.0                                                                                                                     |  |  |  |  |  |
| Diesel Range Organics (DRO)       | 200 15.0                                                                                                                       |  |  |  |  |  |
| Oil Range Hydrocarbons (ORO)      | 35.6 15.0                                                                                                                      |  |  |  |  |  |
| Total TPH                         | 235.6 15                                                                                                                       |  |  |  |  |  |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Kelsey Brooks  
Project Manager

# Analytical Report 568121

for  
**TRC Solutions, Inc**

**Project Manager: Nikki Green**  
**Gunslinger 11 Federal Com #001H (3/18/17)**

**12-JAN-18**

Collected By: Client



**1211 W. Florida Ave, Midland TX 79701**

Xenco-Houston (EPA Lab code: TX00122):  
Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)  
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab code: TX01468):  
Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)  
Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)  
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)  
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)  
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



12-JAN-18

Project Manager: **Nikki Green**

**TRC Solutions, Inc**

2057 Commerce

Midland, TX 79703

Reference: XENCO Report No(s): **568121**

**Gunslinger 11 Federal Com #001H (3/18/17)**

Project Address: Lea Co, NM

**Nikki Green:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 568121. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 568121 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

**Kelsey Brooks**

Project Manager

***Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.***

*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

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## Sample Cross Reference 568121



TRC Solutions, Inc, Midland, TX

Gunslinger 11 Federal Com #001H (3/18/17)

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| SP-1      | S      | 11-10-17 10:30 |              | 568121-001    |
| SP-2      | S      | 11-10-17 10:40 |              | 568121-002    |
| SP-3      | S      | 11-10-17 10:50 |              | 568121-003    |
| SP-4      | S      | 11-10-17 11:00 |              | 568121-004    |
| SP-5      | S      | 11-10-17 11:10 |              | 568121-005    |
| SP-6      | S      | 11-10-17 11:20 |              | 568121-006    |
| SP-7      | S      | 11-10-17 11:30 |              | 568121-007    |
| SP-8      | S      | 11-10-17 11:40 |              | 568121-008    |
| SP-9      | S      | 11-10-17 11:50 |              | 568121-009    |
| SP-10     | S      | 11-10-17 12:00 |              | 568121-010    |
| SP-11     | S      | 11-10-17 12:10 |              | 568121-011    |
| SP-12     | S      | 11-10-17 12:20 |              | 568121-012    |
| SP-13     | S      | 11-10-17 12:30 |              | 568121-013    |



## CASE NARRATIVE

**Client Name:** TRC Solutions, Inc

**Project Name:** Gunslinger 11 Federal Com #001H (3/18/17)

Project ID: 8021  
Work Order Number(s): 568121

Report Date: 12-JAN-18  
Date Received: 11/10/2017

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### **Sample receipt non conformances and comments:**

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#### **Sample receipt non conformances and comments per sample:**

None

#### **Analytical non conformances and comments:**

Batch: LBA-3033435 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3033483 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



# Certificate of Analytical Results 568121



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: **SP-1** Matrix: Soil Date Received: 11.10.17 15.40  
Lab Sample Id: 568121-001 Date Collected: 11.10.17 10.30  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MNV % Moisture:  
Analyst: MNV Date Prep: 11.15.17 09.00 Basis: Wet Weight  
Seq Number: 3033470

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 354    | 4.94 | mg/kg | 11.15.17 09.59 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 11.13.17 17.00 Basis: Wet Weight  
Seq Number: 3033238

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 110    | 15.0 | mg/kg | 11.14.17 02.12 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 1430   | 15.0 | mg/kg | 11.14.17 02.12 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 203    | 15.0 | mg/kg | 11.14.17 02.12 |      | 1   |
| Total TPH                         | PHC635     | 1743   | 15   | mg/kg | 11.14.17 02.12 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 91         | %     | 70-135 | 11.14.17 02.12 |      |
| o-Terphenyl    | 84-15-1    | 82         | %     | 70-135 | 11.14.17 02.12 |      |

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B  
Tech: ALJ % Moisture:  
Analyst: ALJ Date Prep: 11.14.17 16.50 Basis: Wet Weight  
Seq Number: 3033435

| Parameter      | Cas Number | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|----------------|------------|----------|---------|-------|----------------|------|-----|
| Benzene        | 71-43-2    | <0.00992 | 0.00992 | mg/kg | 11.15.17 08.46 | U    | 1   |
| Toluene        | 108-88-3   | 0.105    | 0.00992 | mg/kg | 11.15.17 08.46 |      | 1   |
| Ethylbenzene   | 100-41-4   | 0.225    | 0.00992 | mg/kg | 11.15.17 08.46 |      | 1   |
| Xylenes, Total | 1330-20-7  | 2.473    | 0.00992 | mg/kg | 11.15.17 08.46 |      | 1   |
| Total BTEX     |            | 2.803    | 0.00992 | mg/kg | 11.15.17 08.46 |      | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 97         | %     | 80-120 | 11.15.17 08.46 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 83         | %     | 80-120 | 11.15.17 08.46 |      |



# Certificate of Analytical Results 568121



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: **SP-2**  
Lab Sample Id: 568121-002

Matrix: Soil  
Date Collected: 11.10.17 10.40

Date Received: 11.10.17 15.40

Analytical Method: Chloride by EPA 300  
Tech: MNV  
Analyst: MNV  
Seq Number: 3033470

Prep Method: E300P  
% Moisture:  
Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 327    | 4.92 | mg/kg | 11.15.17 10.18 |      | 1   |

Analytical Method: TPH by SW8015 Mod  
Tech: ARM  
Analyst: ARM  
Seq Number: 3033238

Prep Method: TX1005P  
% Moisture:  
Basis: Wet Weight

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 19.3       | 15.0  | mg/kg  | 11.14.17 02.33 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 1380       | 15.0  | mg/kg  | 11.14.17 02.33 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 207        | 15.0  | mg/kg  | 11.14.17 02.33 |      | 1   |
| Total TPH                         | PHC635     | 1606.3     | 15    | mg/kg  | 11.14.17 02.33 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 86         | %     | 70-135 | 11.14.17 02.33 |      |     |
| o-Terphenyl                       | 84-15-1    | 77         | %     | 70-135 | 11.14.17 02.33 |      |     |

Analytical Method: BTEX by EPA 8021B  
Tech: ALJ  
Analyst: ALJ  
Seq Number: 3033435

Prep Method: SW5030B  
% Moisture:  
Basis: Wet Weight

| Parameter            | Cas Number | Result     | RL      | Units  | Analysis Date  | Flag | Dil |
|----------------------|------------|------------|---------|--------|----------------|------|-----|
| Benzene              | 71-43-2    | <0.00201   | 0.00201 | mg/kg  | 11.15.17 11.12 | U    | 1   |
| Toluene              | 108-88-3   | <0.00201   | 0.00201 | mg/kg  | 11.15.17 11.12 | U    | 1   |
| Ethylbenzene         | 100-41-4   | <0.00201   | 0.00201 | mg/kg  | 11.15.17 11.12 | U    | 1   |
| Xylenes, Total       | 1330-20-7  | <0.00201   | 0.00201 | mg/kg  | 11.15.17 11.12 | U    | 1   |
| Total BTEX           |            | <0.00201   | 0.00201 | mg/kg  | 11.15.17 11.12 | U    | 1   |
| Surrogate            | Cas Number | % Recovery | Units   | Limits | Analysis Date  | Flag |     |
| 4-Bromofluorobenzene | 460-00-4   | 81         | %       | 80-120 | 11.15.17 11.12 |      |     |
| 1,4-Difluorobenzene  | 540-36-3   | 82         | %       | 80-120 | 11.15.17 11.12 |      |     |



# Certificate of Analytical Results 568121



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: **SP-3** Matrix: Soil Date Received: 11.10.17 15.40  
Lab Sample Id: 568121-003 Date Collected: 11.10.17 10.50  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MNV % Moisture:  
Analyst: MNV Date Prep: 11.15.17 09.00 Basis: Wet Weight  
Seq Number: 3033470

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 152    | 4.90 | mg/kg | 11.15.17 10.24 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 11.13.17 17.00 Basis: Wet Weight  
Seq Number: 3033238

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 22.8   | 15.0 | mg/kg | 11.14.17 02.53 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 1650   | 15.0 | mg/kg | 11.14.17 02.53 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 270    | 15.0 | mg/kg | 11.14.17 02.53 |      | 1   |
| Total TPH                         | PHC635     | 1940   | 15   | mg/kg | 11.14.17 02.53 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 89         | %     | 70-135 | 11.14.17 02.53 |      |
| o-Terphenyl    | 84-15-1    | 76         | %     | 70-135 | 11.14.17 02.53 |      |

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B  
Tech: ALJ % Moisture:  
Analyst: ALJ Date Prep: 11.15.17 11.30 Basis: Wet Weight  
Seq Number: 3033483

| Parameter      | Cas Number | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|----------------|------------|----------|---------|-------|----------------|------|-----|
| Benzene        | 71-43-2    | <0.00348 | 0.00348 | mg/kg | 11.16.17 01.29 | U    | 1   |
| Toluene        | 108-88-3   | <0.00348 | 0.00348 | mg/kg | 11.16.17 01.29 | U    | 1   |
| Ethylbenzene   | 100-41-4   | <0.00348 | 0.00348 | mg/kg | 11.16.17 01.29 | U    | 1   |
| Xylenes, Total | 1330-20-7  | <0.00348 | 0.00348 | mg/kg | 11.16.17 01.29 | U    | 1   |
| Total BTEX     |            | <0.00348 | 0.00348 | mg/kg | 11.16.17 01.29 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 84         | %     | 80-120 | 11.16.17 01.29 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 94         | %     | 80-120 | 11.16.17 01.29 |      |



# Certificate of Analytical Results 568121



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: **SP-4** Matrix: Soil Date Received: 11.10.17 15.40  
Lab Sample Id: 568121-004 Date Collected: 11.10.17 11.00  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MNV % Moisture:  
Analyst: MNV Date Prep: 11.15.17 09.00 Basis: Wet Weight  
Seq Number: 3033470

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 219    | 4.96 | mg/kg | 11.15.17 10.30 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 11.13.17 17.00 Basis: Wet Weight  
Seq Number: 3033238

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0  | 15.0 | mg/kg | 11.14.17 03.14 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 1240   | 15.0 | mg/kg | 11.14.17 03.14 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 205    | 15.0 | mg/kg | 11.14.17 03.14 |      | 1   |
| Total TPH                         | PHC635     | 1445   | 15   | mg/kg | 11.14.17 03.14 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 90         | %     | 70-135 | 11.14.17 03.14 |      |
| o-Terphenyl    | 84-15-1    | 81         | %     | 70-135 | 11.14.17 03.14 |      |

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B  
Tech: ALJ % Moisture:  
Analyst: ALJ Date Prep: 11.14.17 16.50 Basis: Wet Weight  
Seq Number: 3033435

| Parameter      | Cas Number | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|----------------|------------|----------|---------|-------|----------------|------|-----|
| Benzene        | 71-43-2    | <0.00200 | 0.00200 | mg/kg | 11.15.17 03.34 | U    | 1   |
| Toluene        | 108-88-3   | <0.00200 | 0.00200 | mg/kg | 11.15.17 03.34 | U    | 1   |
| Ethylbenzene   | 100-41-4   | <0.00200 | 0.00200 | mg/kg | 11.15.17 03.34 | U    | 1   |
| Xylenes, Total | 1330-20-7  | 0.00508  | 0.002   | mg/kg | 11.15.17 03.34 |      | 1   |
| Total BTEX     |            | 0.00508  | 0.002   | mg/kg | 11.15.17 03.34 |      | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 89         | %     | 80-120 | 11.15.17 03.34 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 95         | %     | 80-120 | 11.15.17 03.34 |      |



# Certificate of Analytical Results 568121



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: **SP-5** Matrix: **Soil** Date Received: 11.10.17 15.40  
Lab Sample Id: 568121-005 Date Collected: 11.10.17 11.10  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: **MNV** % Moisture:  
Analyst: **MNV** Date Prep: 11.15.17 09.00 Basis: **Wet Weight**  
Seq Number: 3033470

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 54.7   | 4.97 | mg/kg | 11.15.17 10.37 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: **ARM** % Moisture:  
Analyst: **ARM** Date Prep: 11.13.17 17.00 Basis: **Wet Weight**  
Seq Number: 3033238

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0  | 15.0 | mg/kg | 11.14.17 03.36 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 417    | 15.0 | mg/kg | 11.14.17 03.36 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 40.3   | 15.0 | mg/kg | 11.14.17 03.36 |      | 1   |
| Total TPH                         | PHC635     | 457.3  | 15   | mg/kg | 11.14.17 03.36 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 87         | %     | 70-135 | 11.14.17 03.36 |      |
| o-Terphenyl    | 84-15-1    | 84         | %     | 70-135 | 11.14.17 03.36 |      |

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B  
Tech: **ALJ** % Moisture:  
Analyst: **ALJ** Date Prep: 11.14.17 16.50 Basis: **Wet Weight**  
Seq Number: 3033435

| Parameter      | Cas Number | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|----------------|------------|----------|---------|-------|----------------|------|-----|
| Benzene        | 71-43-2    | <0.00346 | 0.00346 | mg/kg | 11.15.17 08.08 | U    | 1   |
| Toluene        | 108-88-3   | <0.00346 | 0.00346 | mg/kg | 11.15.17 08.08 | U    | 1   |
| Ethylbenzene   | 100-41-4   | <0.00346 | 0.00346 | mg/kg | 11.15.17 08.08 | U    | 1   |
| Xylenes, Total | 1330-20-7  | <0.00346 | 0.00346 | mg/kg | 11.15.17 08.08 | U    | 1   |
| Total BTEX     |            | <0.00346 | 0.00346 | mg/kg | 11.15.17 08.08 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 86         | %     | 80-120 | 11.15.17 08.08 |      |
| 4-Bromofluorobenzene | 460-00-4   | 82         | %     | 80-120 | 11.15.17 08.08 |      |



# Certificate of Analytical Results 568121



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: **SP-6**  
Lab Sample Id: 568121-006

Matrix: Soil  
Date Collected: 11.10.17 11.20

Date Received: 11.10.17 15.40

Analytical Method: Chloride by EPA 300

Tech: MNV

Analyst: MNV

Seq Number: 3033470

Prep Method: E300P

% Moisture:

Date Prep: 11.15.17 09.00

Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 71.9   | 4.99 | mg/kg | 11.15.17 10.56 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3033238

Prep Method: TX1005P

% Moisture:

Date Prep: 11.13.17 17.00

Basis: Wet Weight

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 23.5   | 15.0 | mg/kg | 11.14.17 04.40 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 1660   | 15.0 | mg/kg | 11.14.17 04.40 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 283    | 15.0 | mg/kg | 11.14.17 04.40 |      | 1   |
| Total TPH                         | PHC635     | 1966.5 | 15   | mg/kg | 11.14.17 04.40 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 88         | %     | 70-135 | 11.14.17 04.40 |      |
| o-Terphenyl    | 84-15-1    | 82         | %     | 70-135 | 11.14.17 04.40 |      |

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3033483

Prep Method: SW5030B

% Moisture:

Date Prep: 11.15.17 11.30

Basis: Wet Weight

| Parameter      | Cas Number | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|----------------|------------|----------|---------|-------|----------------|------|-----|
| Benzene        | 71-43-2    | <0.00202 | 0.00202 | mg/kg | 11.16.17 01.48 | U    | 1   |
| Toluene        | 108-88-3   | <0.00202 | 0.00202 | mg/kg | 11.16.17 01.48 | U    | 1   |
| Ethylbenzene   | 100-41-4   | <0.00202 | 0.00202 | mg/kg | 11.16.17 01.48 | U    | 1   |
| Xylenes, Total | 1330-20-7  | 0.00889  | 0.00202 | mg/kg | 11.16.17 01.48 |      | 1   |
| Total BTEX     |            | 0.00889  | 0.00202 | mg/kg | 11.16.17 01.48 |      | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 93         | %     | 80-120 | 11.16.17 01.48 |      |
| 4-Bromofluorobenzene | 460-00-4   | 98         | %     | 80-120 | 11.16.17 01.48 |      |



# Certificate of Analytical Results 568121



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: **SP-7** Matrix: Soil Date Received: 11.10.17 15.40  
Lab Sample Id: 568121-007 Date Collected: 11.10.17 11.30  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MNV % Moisture:  
Analyst: MNV Date Prep: 11.15.17 09.00 Basis: Wet Weight  
Seq Number: 3033470

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 74.2   | 4.93 | mg/kg | 11.15.17 11.02 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 11.13.17 17.00 Basis: Wet Weight  
Seq Number: 3033238

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 32.3   | 15.0 | mg/kg | 11.14.17 05.00 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 1200   | 15.0 | mg/kg | 11.14.17 05.00 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 179    | 15.0 | mg/kg | 11.14.17 05.00 |      | 1   |
| Total TPH                         | PHC635     | 1411.3 | 15   | mg/kg | 11.14.17 05.00 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 83         | %     | 70-135 | 11.14.17 05.00 |      |
| o-Terphenyl    | 84-15-1    | 74         | %     | 70-135 | 11.14.17 05.00 |      |

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B  
Tech: ALJ % Moisture:  
Analyst: ALJ Date Prep: 11.15.17 11.30 Basis: Wet Weight  
Seq Number: 3033483

| Parameter      | Cas Number | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|----------------|------------|----------|---------|-------|----------------|------|-----|
| Benzene        | 71-43-2    | <0.00200 | 0.00200 | mg/kg | 11.16.17 02.07 | U    | 1   |
| Toluene        | 108-88-3   | <0.00200 | 0.00200 | mg/kg | 11.16.17 02.07 | U    | 1   |
| Ethylbenzene   | 100-41-4   | 0.00299  | 0.00200 | mg/kg | 11.16.17 02.07 |      | 1   |
| Xylenes, Total | 1330-20-7  | 0.0105   | 0.002   | mg/kg | 11.16.17 02.07 |      | 1   |
| Total BTEX     |            | 0.01349  | 0.002   | mg/kg | 11.16.17 02.07 |      | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 90         | %     | 80-120 | 11.16.17 02.07 |      |
| 4-Bromofluorobenzene | 460-00-4   | 95         | %     | 80-120 | 11.16.17 02.07 |      |



# Certificate of Analytical Results 568121



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: **SP-8** Matrix: Soil Date Received: 11.10.17 15.40  
Lab Sample Id: 568121-008 Date Collected: 11.10.17 11.40  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MNV % Moisture:  
Analyst: MNV Date Prep: 11.15.17 09.00 Basis: Wet Weight  
Seq Number: 3033470

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 52.0   | 4.93 | mg/kg | 11.15.17 11.09 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 11.13.17 17.00 Basis: Wet Weight  
Seq Number: 3033238

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 17.4   | 15.0 | mg/kg | 11.14.17 05.20 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 769    | 15.0 | mg/kg | 11.14.17 05.20 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 103    | 15.0 | mg/kg | 11.14.17 05.20 |      | 1   |
| Total TPH                         | PHC635     | 889.4  | 15   | mg/kg | 11.14.17 05.20 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 86         | %     | 70-135 | 11.14.17 05.20 |      |
| o-Terphenyl    | 84-15-1    | 78         | %     | 70-135 | 11.14.17 05.20 |      |

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B  
Tech: ALJ % Moisture:  
Analyst: ALJ Date Prep: 11.14.17 16.50 Basis: Wet Weight  
Seq Number: 3033435

| Parameter      | Cas Number | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|----------------|------------|----------|---------|-------|----------------|------|-----|
| Benzene        | 71-43-2    | <0.00201 | 0.00201 | mg/kg | 11.15.17 10.53 | U    | 1   |
| Toluene        | 108-88-3   | <0.00201 | 0.00201 | mg/kg | 11.15.17 10.53 | U    | 1   |
| Ethylbenzene   | 100-41-4   | <0.00201 | 0.00201 | mg/kg | 11.15.17 10.53 | U    | 1   |
| Xylenes, Total | 1330-20-7  | 0.01669  | 0.00201 | mg/kg | 11.15.17 10.53 |      | 1   |
| Total BTEX     |            | 0.01669  | 0.00201 | mg/kg | 11.15.17 10.53 |      | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 82         | %     | 80-120 | 11.15.17 10.53 |      |
| 4-Bromofluorobenzene | 460-00-4   | 85         | %     | 80-120 | 11.15.17 10.53 |      |



# Certificate of Analytical Results 568121



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: **SP-9** Matrix: Soil Date Received: 11.10.17 15.40  
Lab Sample Id: 568121-009 Date Collected: 11.10.17 11.50  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MNV % Moisture:  
Analyst: MNV Date Prep: 11.15.17 09.00 Basis: Wet Weight  
Seq Number: 3033470

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 51.3   | 4.96 | mg/kg | 11.15.17 11.15 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 11.13.17 17.00 Basis: Wet Weight  
Seq Number: 3033238

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0  | 15.0 | mg/kg | 11.14.17 05.40 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 431    | 15.0 | mg/kg | 11.14.17 05.40 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 53.0   | 15.0 | mg/kg | 11.14.17 05.40 |      | 1   |
| Total TPH                         | PHC635     | 484    | 15   | mg/kg | 11.14.17 05.40 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 92         | %     | 70-135 | 11.14.17 05.40 |      |
| o-Terphenyl    | 84-15-1    | 86         | %     | 70-135 | 11.14.17 05.40 |      |

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B  
Tech: ALJ % Moisture:  
Analyst: ALJ Date Prep: 11.14.17 16.50 Basis: Wet Weight  
Seq Number: 3033435

| Parameter      | Cas Number | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|----------------|------------|----------|---------|-------|----------------|------|-----|
| Benzene        | 71-43-2    | <0.00200 | 0.00200 | mg/kg | 11.15.17 04.12 | U    | 1   |
| Toluene        | 108-88-3   | <0.00200 | 0.00200 | mg/kg | 11.15.17 04.12 | U    | 1   |
| Ethylbenzene   | 100-41-4   | <0.00200 | 0.00200 | mg/kg | 11.15.17 04.12 | U    | 1   |
| Xylenes, Total | 1330-20-7  | 0.0264   | 0.002   | mg/kg | 11.15.17 04.12 |      | 1   |
| Total BTEX     |            | 0.0264   | 0.002   | mg/kg | 11.15.17 04.12 |      | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 100        | %     | 80-120 | 11.15.17 04.12 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 94         | %     | 80-120 | 11.15.17 04.12 |      |



# Certificate of Analytical Results 568121



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: **SP-10**  
Lab Sample Id: 568121-010

Matrix: Soil  
Date Collected: 11.10.17 12.00

Date Received: 11.10.17 15.40

Analytical Method: Chloride by EPA 300  
Tech: MNV  
Analyst: MNV  
Seq Number: 3033470

Prep Method: E300P  
% Moisture:  
Date Prep: 11.15.17 09.00  
Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 95.0   | 4.93 | mg/kg | 11.15.17 11.22 |      | 1   |

Analytical Method: TPH by SW8015 Mod  
Tech: ARM  
Analyst: ARM  
Seq Number: 3033238

Prep Method: TX1005P  
% Moisture:  
Date Prep: 11.13.17 17.00  
Basis: Wet Weight

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0  | 15.0 | mg/kg | 11.14.17 06.00 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 353    | 15.0 | mg/kg | 11.14.17 06.00 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 71.3   | 15.0 | mg/kg | 11.14.17 06.00 |      | 1   |
| Total TPH                         | PHC635     | 424.3  | 15   | mg/kg | 11.14.17 06.00 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 89         | %     | 70-135 | 11.14.17 06.00 |      |
| o-Terphenyl    | 84-15-1    | 90         | %     | 70-135 | 11.14.17 06.00 |      |

Analytical Method: BTEX by EPA 8021B  
Tech: ALJ  
Analyst: ALJ  
Seq Number: 3033435

Prep Method: SW5030B  
% Moisture:  
Date Prep: 11.14.17 16.50  
Basis: Wet Weight

| Parameter      | Cas Number | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|----------------|------------|----------|---------|-------|----------------|------|-----|
| Benzene        | 71-43-2    | <0.00344 | 0.00344 | mg/kg | 11.15.17 04.31 | U    | 1   |
| Toluene        | 108-88-3   | <0.00344 | 0.00344 | mg/kg | 11.15.17 04.31 | U    | 1   |
| Ethylbenzene   | 100-41-4   | <0.00344 | 0.00344 | mg/kg | 11.15.17 04.31 | U    | 1   |
| Xylenes, Total | 1330-20-7  | <0.00344 | 0.00344 | mg/kg | 11.15.17 04.31 | U    | 1   |
| Total BTEX     |            | <0.00344 | 0.00344 | mg/kg | 11.15.17 04.31 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 86         | %     | 80-120 | 11.15.17 04.31 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 85         | %     | 80-120 | 11.15.17 04.31 |      |



# Certificate of Analytical Results 568121



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: **SP-11** Matrix: Soil Date Received: 11.10.17 15.40  
Lab Sample Id: 568121-011 Date Collected: 11.10.17 12.10  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MNV % Moisture:  
Analyst: MNV Date Prep: 11.15.17 09.00 Basis: Wet Weight  
Seq Number: 3033470

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 31.6   | 4.99 | mg/kg | 11.15.17 11.28 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 11.13.17 17.00 Basis: Wet Weight  
Seq Number: 3033238

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0  | 15.0 | mg/kg | 11.14.17 06.22 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 399    | 15.0 | mg/kg | 11.14.17 06.22 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 54.0   | 15.0 | mg/kg | 11.14.17 06.22 |      | 1   |
| Total TPH                         | PHC635     | 453    | 15   | mg/kg | 11.14.17 06.22 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 88         | %     | 70-135 | 11.14.17 06.22 |      |
| o-Terphenyl    | 84-15-1    | 80         | %     | 70-135 | 11.14.17 06.22 |      |

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B  
Tech: ALJ % Moisture:  
Analyst: ALJ Date Prep: 11.14.17 16.50 Basis: Wet Weight  
Seq Number: 3033435

| Parameter      | Cas Number | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|----------------|------------|----------|---------|-------|----------------|------|-----|
| Benzene        | 71-43-2    | <0.00200 | 0.00200 | mg/kg | 11.15.17 07.13 | U    | 1   |
| Toluene        | 108-88-3   | <0.00200 | 0.00200 | mg/kg | 11.15.17 07.13 | U    | 1   |
| Ethylbenzene   | 100-41-4   | <0.00200 | 0.00200 | mg/kg | 11.15.17 07.13 | U    | 1   |
| Xylenes, Total | 1330-20-7  | 0.00752  | 0.002   | mg/kg | 11.15.17 07.13 |      | 1   |
| Total BTEX     |            | 0.00752  | 0.002   | mg/kg | 11.15.17 07.13 |      | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 88         | %     | 80-120 | 11.15.17 07.13 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 87         | %     | 80-120 | 11.15.17 07.13 |      |



# Certificate of Analytical Results 568121



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: **SP-12** Matrix: Soil Date Received: 11.10.17 15.40  
Lab Sample Id: 568121-012 Date Collected: 11.10.17 12.20  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MNV % Moisture:  
Analyst: MNV Date Prep: 11.15.17 09.00 Basis: Wet Weight  
Seq Number: 3033470

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 31.3   | 5.00 | mg/kg | 11.15.17 11.47 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 11.13.17 17.00 Basis: Wet Weight  
Seq Number: 3033238

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0  | 15.0 | mg/kg | 11.14.17 06.42 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 470    | 15.0 | mg/kg | 11.14.17 06.42 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 63.9   | 15.0 | mg/kg | 11.14.17 06.42 |      | 1   |
| Total TPH                         | PHC635     | 533.9  | 15   | mg/kg | 11.14.17 06.42 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 85         | %     | 70-135 | 11.14.17 06.42 |      |
| o-Terphenyl    | 84-15-1    | 76         | %     | 70-135 | 11.14.17 06.42 |      |

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B  
Tech: ALJ % Moisture:  
Analyst: ALJ Date Prep: 11.14.17 16.50 Basis: Wet Weight  
Seq Number: 3033435

| Parameter      | Cas Number | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|----------------|------------|----------|---------|-------|----------------|------|-----|
| Benzene        | 71-43-2    | <0.00332 | 0.00332 | mg/kg | 11.15.17 10.34 | U    | 1   |
| Toluene        | 108-88-3   | <0.00332 | 0.00332 | mg/kg | 11.15.17 10.34 | U    | 1   |
| Ethylbenzene   | 100-41-4   | <0.00332 | 0.00332 | mg/kg | 11.15.17 10.34 | U    | 1   |
| Xylenes, Total | 1330-20-7  | <0.00332 | 0.00332 | mg/kg | 11.15.17 10.34 | U    | 1   |
| Total BTEX     |            | <0.00332 | 0.00332 | mg/kg | 11.15.17 10.34 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 92         | %     | 80-120 | 11.15.17 10.34 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 92         | %     | 80-120 | 11.15.17 10.34 |      |



# Certificate of Analytical Results 568121



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: **SP-13** Matrix: Soil Date Received: 11.10.17 15.40  
Lab Sample Id: 568121-013 Date Collected: 11.10.17 12.30  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: MNV % Moisture:  
Analyst: MNV Date Prep: 11.15.17 09.00 Basis: Wet Weight  
Seq Number: 3033470

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 132    | 4.99 | mg/kg | 11.15.17 11.53 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 11.13.17 17.00 Basis: Wet Weight  
Seq Number: 3033238

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0  | 15.0 | mg/kg | 11.14.17 07.02 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 200    | 15.0 | mg/kg | 11.14.17 07.02 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 35.6   | 15.0 | mg/kg | 11.14.17 07.02 |      | 1   |
| Total TPH                         | PHC635     | 235.6  | 15   | mg/kg | 11.14.17 07.02 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 85         | %     | 70-135 | 11.14.17 07.02 |      |
| o-Terphenyl    | 84-15-1    | 84         | %     | 70-135 | 11.14.17 07.02 |      |

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B  
Tech: ALJ % Moisture:  
Analyst: ALJ Date Prep: 11.14.17 16.50 Basis: Wet Weight  
Seq Number: 3033435

| Parameter      | Cas Number | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|----------------|------------|----------|---------|-------|----------------|------|-----|
| Benzene        | 71-43-2    | <0.00200 | 0.00200 | mg/kg | 11.15.17 07.49 | U    | 1   |
| Toluene        | 108-88-3   | <0.00200 | 0.00200 | mg/kg | 11.15.17 07.49 | U    | 1   |
| Ethylbenzene   | 100-41-4   | <0.00200 | 0.00200 | mg/kg | 11.15.17 07.49 | U    | 1   |
| Xylenes, Total | 1330-20-7  | <0.002   | 0.002   | mg/kg | 11.15.17 07.49 | U    | 1   |
| Total BTEX     |            | <0.002   | 0.002   | mg/kg | 11.15.17 07.49 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 101        | %     | 80-120 | 11.15.17 07.49 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 95         | %     | 80-120 | 11.15.17 07.49 |      |

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

**MDL** Method Detection Limit      **SDL** Sample Detection Limit      **LOD** Limit of Detection

**PQL** Practical Quantitation Limit      **MQL** Method Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

+ NELAC certification not offered for this compound.

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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| (602) 437-0330 |                |



# QC Summary 568121

## TRC Solutions, Inc Gunslinger 11 Federal Com #001H (3/18/17)

**Analytical Method: Chloride by EPA 300**

Seq Number: 3033470

MB Sample Id: 7634447-1-BLK

Matrix: Solid

LCS Sample Id: 7634447-1-BKS

Prep Method: E300P

Date Prep: 11.15.17

LCSD Sample Id: 7634447-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Chloride  | <5.00     | 250          | 250        | 100      | 251         | 100       | 90-110 | 0    | 20        | mg/kg | 11.15.17 09:35 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3033470

Parent Sample Id: 568121-001

Matrix: Soil

MS Sample Id: 568121-001 S

Prep Method: E300P

Date Prep: 11.15.17

MSD Sample Id: 568121-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 354           | 247          | 582       | 92      | 582        | 92       | 90-110 | 0    | 20        | mg/kg | 11.15.17 10:05 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3033470

Parent Sample Id: 568121-011

Matrix: Soil

MS Sample Id: 568121-011 S

Prep Method: E300P

Date Prep: 11.15.17

MSD Sample Id: 568121-011 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 31.6          | 250          | 296       | 106     | 306        | 110      | 90-110 | 3    | 20        | mg/kg | 11.15.17 11:34 |      |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3033238

MB Sample Id: 7634354-1-BLK

Matrix: Solid

LCS Sample Id: 7634354-1-BKS

Prep Method: TX1005P

Date Prep: 11.13.17

LCSD Sample Id: 7634354-1-BSD

| Parameter                         | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <15.0     | 1000         | 972        | 97       | 1010        | 101       | 70-135 | 4    | 35        | mg/kg | 11.13.17 23:06 |      |
| Diesel Range Organics (DRO)       | <15.0     | 1000         | 1010       | 101      | 1010        | 101       | 70-135 | 0    | 35        | mg/kg | 11.13.17 23:06 |      |

| Surrogate      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 106     |         | 101      |          | 101       |           | 70-135 | %     | 11.13.17 23:06 |
| o-Terphenyl    | 108     |         | 96       |          | 98        |           | 70-135 | %     | 11.13.17 23:06 |

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery

$[D] = 100 * (C - A) / B$   
 $RPD = 200 * | (C - E) / (C + E) |$   
 $[D] = 100 * (C) / [B]$

LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD Result

MS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec

TRC Solutions, Inc  
Gunslinger 11 Federal Com #001H (3/18/17)

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3033238

Parent Sample Id: 567918-003

Matrix: Soil

MS Sample Id: 567918-003 S

Prep Method: TX1005P

Date Prep: 11.13.17

MSD Sample Id: 567918-003 SD

| Parameter                         | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <15.0         | 1000         | 977       | 98      | 975        | 98       | 70-135 | 0    | 35        | mg/kg | 11.14.17 00:29 |      |
| Diesel Range Organics (DRO)       | 104           | 1000         | 1060      | 96      | 1060       | 96       | 70-135 | 0    | 35        | mg/kg | 11.14.17 00:29 |      |

## Surrogate

|                | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 98      |         | 97       |          | 70-135 | %     | 11.14.17 00:29 |
| o-Terphenyl    | 89      |         | 98       |          | 70-135 | %     | 11.14.17 00:29 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3033435

MB Sample Id: 7634470-1-BLK

Matrix: Solid

LCS Sample Id: 7634470-1-BKS

Prep Method: SW5030B

Date Prep: 11.14.17

LCSD Sample Id: 7634470-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00201  | 0.101        | 0.0856     | 85       | 0.0886      | 88        | 70-130 | 3    | 35        | mg/kg | 11.15.17 01:24 |      |
| Toluene      | <0.00201  | 0.101        | 0.0826     | 82       | 0.0870      | 86        | 70-130 | 5    | 35        | mg/kg | 11.15.17 01:24 |      |
| Ethylbenzene | <0.00201  | 0.101        | 0.0892     | 88       | 0.0927      | 92        | 71-129 | 4    | 35        | mg/kg | 11.15.17 01:24 |      |

## Surrogate

|                      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 98      |         | 104      |          | 95        |           | 80-120 | %     | 11.15.17 01:24 |
| 4-Bromofluorobenzene | 91      |         | 94       |          | 105       |           | 80-120 | %     | 11.15.17 01:24 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3033483

MB Sample Id: 7634508-1-BLK

Matrix: Solid

LCS Sample Id: 7634508-1-BKS

Prep Method: SW5030B

Date Prep: 11.15.17

LCSD Sample Id: 7634508-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00200  | 0.0998       | 0.124      | 124      | 0.125       | 125       | 70-130 | 1    | 35        | mg/kg | 11.15.17 14:11 |      |
| Toluene      | <0.00200  | 0.0998       | 0.114      | 114      | 0.110       | 110       | 70-130 | 4    | 35        | mg/kg | 11.15.17 14:11 |      |
| Ethylbenzene | <0.00200  | 0.0998       | 0.107      | 107      | 0.104       | 104       | 71-129 | 3    | 35        | mg/kg | 11.15.17 14:11 |      |

## Surrogate

|                      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 108     |         | 88       |          | 84        |           | 80-120 | %     | 11.15.17 14:11 |
| 4-Bromofluorobenzene | 96      |         | 82       |          | 81        |           | 80-120 | %     | 11.15.17 14:11 |

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery $[D] = 100 * (C - A) / B$   
 $RPD = 200 * |(C - E) / (C + E)|$   
 $[D] = 100 * (C) / [B]$ LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD ResultMS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec

TRC Solutions, Inc  
Gunslinger 11 Federal Com #001H (3/18/17)

Analytical Method: BTEX by EPA 8021B

Seq Number: 3033435

Parent Sample Id: 568179-013

Matrix: Soil

MS Sample Id: 568179-013 S

Prep Method: SW5030B

Date Prep: 11.14.17

MSD Sample Id: 568179-013 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00201      | 0.100        | 0.0833    | 83      | 0.0802     | 81       | 70-130 | 4    | 35        | mg/kg | 11.15.17 02:02 |      |
| Toluene      | <0.00201      | 0.100        | 0.0828    | 83      | 0.0789     | 79       | 70-130 | 5    | 35        | mg/kg | 11.15.17 02:02 |      |
| Ethylbenzene | <0.00201      | 0.100        | 0.0876    | 88      | 0.0856     | 86       | 71-129 | 2    | 35        | mg/kg | 11.15.17 02:02 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 108     |         | 104      |          | 80-120 | %     | 11.15.17 02:02 |
| 4-Bromofluorobenzene | 98      |         | 119      |          | 80-120 | %     | 11.15.17 02:02 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3033483

Parent Sample Id: 568429-011

Matrix: Soil

MS Sample Id: 568429-011 S

Prep Method: SW5030B

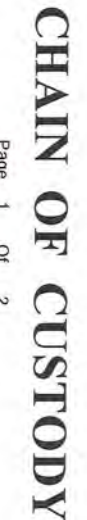
Date Prep: 11.15.17

MSD Sample Id: 568429-011 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00199      | 0.0996       | 0.101     | 101     | 0.116      | 116      | 70-130 | 14   | 35        | mg/kg | 11.15.17 16:04 |      |
| Toluene      | <0.00199      | 0.0996       | 0.0790    | 79      | 0.0884     | 88       | 70-130 | 11   | 35        | mg/kg | 11.15.17 16:04 |      |
| Ethylbenzene | <0.00199      | 0.0996       | 0.0602    | 60      | 0.0657     | 66       | 71-129 | 9    | 35        | mg/kg | 11.15.17 16:04 | X    |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 97      |         | 101      |          | 80-120 | %     | 11.15.17 16:04 |
| 4-Bromofluorobenzene | 88      |         | 102      |          | 80-120 | %     | 11.15.17 16:04 |

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery $[D] = 100 * (C - A) / B$   
 $RPD = 200 * |(C - E) / (C + E)|$   
 $[D] = 100 * (C) / [B]$ LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD ResultMS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec



Phoenix, Arizona (480-355-0900)

Phoenix, Arizona (480-355-0900)

Phoenix, Arizona (480-355-0900)

W = Water  
S = Soil/Sed/Solid  
GW = Ground Water  
DW = Drinking Water  
P = Product  
SW = Surface water  
SL = Sludge  
OW = Ocean/Sea Water  
WI = Wipe  
O = Oil  
WW = Waste Water  
A = Air

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**Phoenix, Arizona (480-355-0900)**

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| Client / Reporting Information |              | Project Information                                         |  | Analytical Information |  | Matrix Codes |  |
|--------------------------------|--------------|-------------------------------------------------------------|--|------------------------|--|--------------|--|
| Company Name / Branch:         |              | Project Name/Number:                                        |  |                        |  |              |  |
| TRC                            |              | Gunslinger 11 Federal Com #001H (3/18/17)                   |  |                        |  |              |  |
| Company Address:               |              | Project Location:                                           |  |                        |  |              |  |
| 2057 Commerce Drive            |              | Lea County, NM                                              |  |                        |  |              |  |
| Midland, Texas 79703           |              |                                                             |  |                        |  |              |  |
| Email:                         | Phone No:    | Invoice To:                                                 |  |                        |  |              |  |
| ngreen@trcsolutions.com        | 432-464-6699 | Rebecca Haskell with COG Operating LLC rshaskell@concho.com |  |                        |  |              |  |
| Project Contact:               |              | 600 W Illinois Avenue   Midland, TX 79701                   |  |                        |  |              |  |
| NIKKI Green                    |              | Direct: 432-818-2372   Main: 432-683,7443                   |  |                        |  |              |  |
| Sampler's Name: Nikki Green    |              | PO Number:                                                  |  |                        |  |              |  |

[illegible]

| Data Deliverable Information                           |                                                  | Note                                                                                   |
|--------------------------------------------------------|--------------------------------------------------|----------------------------------------------------------------------------------------|
| <input type="checkbox"/> Same Day TAT                  | <input type="checkbox"/> 5 Day TAT               | Temp: 2.2<br>iIR ID: R-8<br>CF: (0-6: -0.2°C)<br>(6-23: +0.2°C)<br>Corrected Temp: 5.0 |
| <input type="checkbox"/> Next Day EMERGENCY            | <input type="checkbox"/> 7 Day TAT               |                                                                                        |
| <input type="checkbox"/> 2 Day EMERGENCY               | <input checked="" type="checkbox"/> Contract TAT |                                                                                        |
| <input type="checkbox"/> 3 Day EMERGENCY               | <input type="checkbox"/> TRRP Checklist          |                                                                                        |
| TAT Starts Day received by Lab, if received by 5:00 pm |                                                  | FED-EX / UPS: Tracking #                                                               |

| SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY |                |                |                                                                                                                     |
|---------------------------------------------------------------------------------------------------------|----------------|----------------|---------------------------------------------------------------------------------------------------------------------|
| Relinquished by Sampler:                                                                                | Date Time:     | Received By:   | Received By:                                                                                                        |
| 1                                                                                                       | 11/16/12 15:41 | 1              | 2                                                                                                                   |
| Relinquished by:                                                                                        | Date Time:     | Received By:   | Received By:                                                                                                        |
| 3                                                                                                       |                | 3              | 4                                                                                                                   |
| Relinquished by:                                                                                        | Date Time:     | Received By:   | Received By:                                                                                                        |
| 5                                                                                                       |                | 5              | 4                                                                                                                   |
|                                                                                                         |                | Custody Seal # | Preserved Where applicable                                                                                          |
|                                                                                                         |                |                | On Ice <input type="checkbox"/> Cooler Temp. <input type="checkbox"/> Thermo. Corr. Factor <input type="checkbox"/> |

Notice: Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenoco. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenoco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if such losses are due to circumstances beyond the control of Xenoco. A minimum charge of \$75 will be applied to each project. Xenoco's liability will be limited to the cost of samples. Any samples received by Xenoco but not analyzed will be invoiced at \$5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.



**XENCO Laboratories**  
**Prelogin/Nonconformance Report- Sample Log-In**



**Client:** TRC Solutions, Inc

**Date/ Time Received:** 11/10/2017 03:40:00 PM

**Work Order #:** 568121

**Acceptable Temperature Range:** 0 - 6 degC

**Air and Metal samples Acceptable Range:** Ambient

**Temperature Measuring device used :** R8

**Sample Receipt Checklist**

**Comments**

|                                                         |     |
|---------------------------------------------------------|-----|
| #1 *Temperature of cooler(s)?                           | 5   |
| #2 *Shipping container in good condition?               | Yes |
| #3 *Samples received on ice?                            | Yes |
| #4 *Custody Seals intact on shipping container/ cooler? | No  |
| #5 Custody Seals intact on sample bottles?              | N/A |
| #6 *Custody Seals Signed and dated?                     | N/A |
| #7 *Chain of Custody present?                           | Yes |
| #8 Any missing/extra samples?                           | No  |
| #9 Chain of Custody signed when relinquished/ received? | Yes |
| #10 Chain of Custody agrees with sample labels/matrix?  | Yes |
| #11 Container label(s) legible and intact?              | Yes |
| #12 Samples in proper container/ bottle?                | Yes |
| #13 Samples properly preserved?                         | Yes |
| #14 Sample container(s) intact?                         | Yes |
| #15 Sufficient sample amount for indicated test(s)?     | Yes |
| #16 All samples received within hold time?              | Yes |
| #17 Subcontract of sample(s)?                           | No  |
| #18 Water VOC samples have zero headspace?              | N/A |

**\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

**Checklist completed by:**

Shawnee Smith

Date: 11/13/2017

**Checklist reviewed by:**

Mike Kimmel

Date: 11/14/2017



# Certificate of Analysis Summary 571522

TRC Solutions, Inc, Midland, TX

Project Name: Gunslinger 11 Federal Com #001H (3/18/17)



Project Id: 8021  
Contact: Curt Stanley  
Project Location: Lea County, NM

Date Received in Lab: Mon Dec-18-17 03:25 pm  
Report Date: 26-DEC-17  
Project Manager: Kelsey Brooks

| <i>Analysis Requested</i>         | <i>Lab Id:</i>    | 571522-001       | 571522-002       | 571522-003       | 571522-004       | 571522-005       | 571522-006       |
|-----------------------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                   | <i>Field Id:</i>  | NW-1A @ 3"       | EW-1A @ 3"       | WW-1A @3"        | NW-2A @ 6"       | EW-3A @ 3'       | SP-14            |
|                                   | <i>Depth:</i>     |                  |                  |                  |                  |                  |                  |
|                                   | <i>Matrix:</i>    | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             |
|                                   | <i>Sampled:</i>   | Dec-15-17 13:00  | Dec-15-17 13:10  | Dec-15-17 13:20  | Dec-15-17 13:30  | Dec-15-17 13:40  | Dec-15-17 13:50  |
| <b>BTEX by EPA 8021B</b>          | <i>Extracted:</i> | Dec-20-17 08:00  | Dec-19-17 08:00  | Dec-19-17 08:00  | Dec-19-17 08:00  | Dec-21-17 13:00  | Dec-20-17 08:00  |
|                                   | <i>Analyzed:</i>  | Dec-20-17 13:03  | Dec-19-17 15:18  | Dec-19-17 15:47  | Dec-19-17 16:14  | Dec-21-17 16:33  | Dec-20-17 13:41  |
|                                   | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Benzene                           |                   | <0.00199 0.00199 | <0.00202 0.00202 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00202 0.00202 | <0.00202 0.00202 |
| Toluene                           |                   | <0.00199 0.00199 | <0.00202 0.00202 | 0.0204 0.00200   | <0.00200 0.00200 | <0.00202 0.00202 | 0.00327 0.00202  |
| Ethylbenzene                      |                   | <0.00199 0.00199 | <0.00202 0.00202 | 0.0469 0.00200   | 0.00292 0.00200  | <0.00202 0.00202 | 0.00423 0.00202  |
| Xylenes, Total                    |                   | <0.00199 0.00199 | <0.00202 0.00202 | 0.352 0.002      | 0.0405 0.002     | <0.00202 0.00202 | 0.0458 0.00202   |
| Total BTEX                        |                   | <0.00199 0.00199 | <0.00202 0.00202 | 0.4193 0.002     | 0.04342 0.002    | <0.00202 0.00202 | 0.0533 0.00202   |
| <b>Chloride by EPA 300</b>        | <i>Extracted:</i> | Dec-21-17 11:45  | Dec-21-17 11:45  | Dec-21-17 11:45  | Dec-21-17 11:45  | Dec-21-17 11:45  | Dec-21-17 11:45  |
|                                   | <i>Analyzed:</i>  | Dec-21-17 15:13  | Dec-21-17 15:20  | Dec-21-17 15:27  | Dec-21-17 15:48  | Dec-21-17 15:55  | Dec-21-17 16:02  |
|                                   | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Chloride                          |                   | 159 4.94         | 313 4.93         | 303 4.99         | 198 4.98         | 70.5 4.97        | 315 4.91         |
| <b>TPH by SW8015 Mod</b>          | <i>Extracted:</i> | Dec-20-17 07:00  | Dec-20-17 07:00  | Dec-20-17 07:00  | Dec-20-17 07:00  | Dec-20-17 07:00  | Dec-20-17 07:00  |
|                                   | <i>Analyzed:</i>  | Dec-20-17 13:25  | Dec-20-17 14:26  | Dec-20-17 14:45  | Dec-20-17 15:05  | Dec-20-17 15:25  | Dec-20-17 15:45  |
|                                   | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Gasoline Range Hydrocarbons (GRO) |                   | <15.0 15.0       | <15.0 15.0       | 513 15.0         | 155 14.9         | <15.0 15.0       | 83.2 15.0        |
| Diesel Range Organics (DRO)       |                   | 1350 15.0        | 39.0 15.0        | 4420 15.0        | 3680 14.9        | <15.0 15.0       | 2440 15.0        |
| Oil Range Hydrocarbons (ORO)      |                   | 291 15.0         | <15.0 15.0       | 566 15.0         | 465 14.9         | <15.0 15.0       | 384 15.0         |
| Total TPH                         |                   | 1641 15          | 39 15            | 5499 15          | 4300 14.9        | <15 15           | 2907.2 15        |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kelsey Brooks  
Project Manager



# Certificate of Analysis Summary 571522

TRC Solutions, Inc, Midland, TX

Project Name: Gunslinger 11 Federal Com #001H (3/18/17)



Project Id: 8021  
Contact: Curt Stanley  
Project Location: Lea County, NM

Date Received in Lab: Mon Dec-18-17 03:25 pm  
Report Date: 26-DEC-17  
Project Manager: Kelsey Brooks

|                            |                                   |                  |  |  |  |  |  |
|----------------------------|-----------------------------------|------------------|--|--|--|--|--|
| <b>Analysis Requested</b>  | <b>Lab Id:</b>                    | 571522-007       |  |  |  |  |  |
|                            | <b>Field Id:</b>                  | SP-15            |  |  |  |  |  |
|                            | <b>Depth:</b>                     |                  |  |  |  |  |  |
|                            | <b>Matrix:</b>                    | SOIL             |  |  |  |  |  |
|                            | <b>Sampled:</b>                   | Dec-15-17 14:00  |  |  |  |  |  |
| <b>BTEX by EPA 8021B</b>   | <b>Extracted:</b>                 | Dec-20-17 08:00  |  |  |  |  |  |
|                            | <b>Analyzed:</b>                  | Dec-20-17 14:00  |  |  |  |  |  |
|                            | <b>Units/RL:</b>                  | mg/kg RL         |  |  |  |  |  |
|                            | Benzene                           | <0.00200 0.00200 |  |  |  |  |  |
|                            | Toluene                           | <0.00200 0.00200 |  |  |  |  |  |
|                            | Ethylbenzene                      | <0.00200 0.00200 |  |  |  |  |  |
|                            | Xylenes, Total                    | 0.01386 0.002    |  |  |  |  |  |
|                            | Total BTEX                        | 0.01386 0.002    |  |  |  |  |  |
| <b>Chloride by EPA 300</b> | <b>Extracted:</b>                 | Dec-21-17 11:45  |  |  |  |  |  |
|                            | <b>Analyzed:</b>                  | Dec-21-17 16:23  |  |  |  |  |  |
|                            | <b>Units/RL:</b>                  | mg/kg RL         |  |  |  |  |  |
|                            | Chloride                          | 201 5.00         |  |  |  |  |  |
| <b>TPH by SW8015 Mod</b>   | <b>Extracted:</b>                 | Dec-20-17 07:00  |  |  |  |  |  |
|                            | <b>Analyzed:</b>                  | Dec-20-17 16:04  |  |  |  |  |  |
|                            | <b>Units/RL:</b>                  | mg/kg RL         |  |  |  |  |  |
|                            | Gasoline Range Hydrocarbons (GRO) | 18.4 15.0        |  |  |  |  |  |
|                            | Diesel Range Organics (DRO)       | 1290 15.0        |  |  |  |  |  |
|                            | Oil Range Hydrocarbons (ORO)      | 228 15.0         |  |  |  |  |  |
|                            | Total TPH                         | 1536.4 15        |  |  |  |  |  |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Kelsey Brooks  
Project Manager

# **Analytical Report 571522**

**for**  
**TRC Solutions, Inc**

**Project Manager: Curt Stanley**  
**Gunslinger 11 Federal Com #001H (3/18/17)**  
**8021**  
**26-DEC-17**

Collected By: Client



**1211 W. Florida Ave, Midland TX 79701**

Xenco-Houston (EPA Lab code: TX00122):  
Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)  
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab code: TX01468):  
Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)  
Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)  
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)  
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)  
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



26-DEC-17

Project Manager: **Curt Stanley**  
**TRC Solutions, Inc**  
2057 Commerce  
Midland, TX 79703

Reference: XENCO Report No(s): **571522**  
**Gunslinger 11 Federal Com #001H (3/18/17)**  
Project Address: Lea County,NM

**Curt Stanley:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 571522. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 571522 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

**Kelsey Brooks**

Project Manager

***Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.***

*Certified and approved by numerous States and Agencies.*

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## Sample Cross Reference 571522



**TRC Solutions, Inc, Midland, TX**

Gunslinger 11 Federal Com #001H (3/18/17)

| Sample Id  | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|------------|--------|----------------|--------------|---------------|
| NW-1A @ 3" | S      | 12-15-17 13:00 |              | 571522-001    |
| EW-1A @ 3" | S      | 12-15-17 13:10 |              | 571522-002    |
| WW-1A @3"  | S      | 12-15-17 13:20 |              | 571522-003    |
| NW-2A @ 6" | S      | 12-15-17 13:30 |              | 571522-004    |
| EW-3A @ 3' | S      | 12-15-17 13:40 |              | 571522-005    |
| SP-14      | S      | 12-15-17 13:50 |              | 571522-006    |
| SP-15      | S      | 12-15-17 14:00 |              | 571522-007    |



## CASE NARRATIVE

**Client Name:** TRC Solutions, Inc

**Project Name:** Gunslinger 11 Federal Com #001H (3/18/17)

Project ID: 8021  
Work Order Number(s): 571522

Report Date: 26-DEC-17  
Date Received: 12/18/2017

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### **Sample receipt non conformances and comments:**

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#### **Sample receipt non conformances and comments per sample:**

None

#### **Analytical non conformances and comments:**

Batch: LBA-3036268 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3036605 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Lab Sample ID 571522-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 571522-001, -006, -007.

The Laboratory Control Sample for Toluene, Benzene, Ethylbenzene is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3036624 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Lab Sample ID 571522-005 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Toluene recovered below QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 571522-005.

The Laboratory Control Sample for Toluene is within laboratory Control Limits, therefore the data was accepted.



# Certificate of Analytical Results 571522



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: NW-1A @ 3"

Matrix: Soil

Date Received: 12.18.17 15.25

Lab Sample Id: 571522-001

Date Collected: 12.15.17 13.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: LRI

% Moisture:

Analyst: LRI

Date Prep: 12.21.17 11.45

Basis: Wet Weight

Seq Number: 3036662

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 159    | 4.94 | mg/kg | 12.21.17 15.13 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 12.20.17 07.00

Basis: Wet Weight

Seq Number: 3036532

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0  | 15.0 | mg/kg | 12.20.17 13.25 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 1350   | 15.0 | mg/kg | 12.20.17 13.25 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 291    | 15.0 | mg/kg | 12.20.17 13.25 |      | 1   |
| Total TPH                         | PHC635     | 1641   | 15   | mg/kg | 12.20.17 13.25 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 80         | %     | 70-135 | 12.20.17 13.25 |      |
| o-Terphenyl    | 84-15-1    | 76         | %     | 70-135 | 12.20.17 13.25 |      |

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.20.17 08.00

Basis: Wet Weight

Seq Number: 3036605

| Parameter      | Cas Number | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|----------------|------------|----------|---------|-------|----------------|------|-----|
| Benzene        | 71-43-2    | <0.00199 | 0.00199 | mg/kg | 12.20.17 13.03 | U    | 1   |
| Toluene        | 108-88-3   | <0.00199 | 0.00199 | mg/kg | 12.20.17 13.03 | U    | 1   |
| Ethylbenzene   | 100-41-4   | <0.00199 | 0.00199 | mg/kg | 12.20.17 13.03 | U    | 1   |
| Xylenes, Total | 1330-20-7  | <0.00199 | 0.00199 | mg/kg | 12.20.17 13.03 | U    | 1   |
| Total BTEX     |            | <0.00199 | 0.00199 | mg/kg | 12.20.17 13.03 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 88         | %     | 80-120 | 12.20.17 13.03 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 89         | %     | 80-120 | 12.20.17 13.03 |      |



# Certificate of Analytical Results 571522



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: EW-1A @ 3"

Matrix: Soil

Date Received: 12.18.17 15.25

Lab Sample Id: 571522-002

Date Collected: 12.15.17 13.10

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: LRI

% Moisture:

Analyst: LRI

Date Prep: 12.21.17 11.45

Basis: Wet Weight

Seq Number: 3036662

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 313    | 4.93 | mg/kg | 12.21.17 15.20 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 12.20.17 07.00

Basis: Wet Weight

Seq Number: 3036532

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0  | 15.0 | mg/kg | 12.20.17 14.26 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 39.0   | 15.0 | mg/kg | 12.20.17 14.26 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0  | 15.0 | mg/kg | 12.20.17 14.26 | U    | 1   |
| Total TPH                         | PHC635     | 39     | 15   | mg/kg | 12.20.17 14.26 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 84         | %     | 70-135 | 12.20.17 14.26 |      |
| o-Terphenyl    | 84-15-1    | 87         | %     | 70-135 | 12.20.17 14.26 |      |

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.19.17 08.00

Basis: Wet Weight

Seq Number: 3036268

| Parameter      | Cas Number | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|----------------|------------|----------|---------|-------|----------------|------|-----|
| Benzene        | 71-43-2    | <0.00202 | 0.00202 | mg/kg | 12.19.17 15.18 | U    | 1   |
| Toluene        | 108-88-3   | <0.00202 | 0.00202 | mg/kg | 12.19.17 15.18 | U    | 1   |
| Ethylbenzene   | 100-41-4   | <0.00202 | 0.00202 | mg/kg | 12.19.17 15.18 | U    | 1   |
| Xylenes, Total | 1330-20-7  | <0.00202 | 0.00202 | mg/kg | 12.19.17 15.18 | U    | 1   |
| Total BTEX     |            | <0.00202 | 0.00202 | mg/kg | 12.19.17 15.18 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 94         | %     | 80-120 | 12.19.17 15.18 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 101        | %     | 80-120 | 12.19.17 15.18 |      |



# Certificate of Analytical Results 571522



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: **WW-1A @3"**

Matrix: Soil

Date Received: 12.18.17 15.25

Lab Sample Id: 571522-003

Date Collected: 12.15.17 13.20

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: LRI

% Moisture:

Analyst: LRI

Date Prep: 12.21.17 11.45

Basis: Wet Weight

Seq Number: 3036662

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 303    | 4.99 | mg/kg | 12.21.17 15.27 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 12.20.17 07.00

Basis: Wet Weight

Seq Number: 3036532

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 513    | 15.0 | mg/kg | 12.20.17 14.45 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 4420   | 15.0 | mg/kg | 12.20.17 14.45 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 566    | 15.0 | mg/kg | 12.20.17 14.45 |      | 1   |
| Total TPH                         | PHC635     | 5499   | 15   | mg/kg | 12.20.17 14.45 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 87         | %     | 70-135 | 12.20.17 14.45 |      |
| o-Terphenyl    | 84-15-1    | 77         | %     | 70-135 | 12.20.17 14.45 |      |

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.19.17 08.00

Basis: Wet Weight

Seq Number: 3036268

| Parameter      | Cas Number | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|----------------|------------|----------|---------|-------|----------------|------|-----|
| Benzene        | 71-43-2    | <0.00200 | 0.00200 | mg/kg | 12.19.17 15.47 | U    | 1   |
| Toluene        | 108-88-3   | 0.0204   | 0.00200 | mg/kg | 12.19.17 15.47 |      | 1   |
| Ethylbenzene   | 100-41-4   | 0.0469   | 0.00200 | mg/kg | 12.19.17 15.47 |      | 1   |
| Xylenes, Total | 1330-20-7  | 0.352    | 0.002   | mg/kg | 12.19.17 15.47 |      | 1   |
| Total BTEX     |            | 0.4193   | 0.002   | mg/kg | 12.19.17 15.47 |      | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 87         | %     | 80-120 | 12.19.17 15.47 |      |
| 4-Bromofluorobenzene | 460-00-4   | 97         | %     | 80-120 | 12.19.17 15.47 |      |



# Certificate of Analytical Results 571522



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: NW-2A @ 6"

Matrix: Soil

Date Received: 12.18.17 15.25

Lab Sample Id: 571522-004

Date Collected: 12.15.17 13.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: LRI

% Moisture:

Analyst: LRI

Date Prep: 12.21.17 11.45

Basis: Wet Weight

Seq Number: 3036662

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 198    | 4.98 | mg/kg | 12.21.17 15.48 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 12.20.17 07.00

Basis: Wet Weight

Seq Number: 3036532

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 155    | 14.9 | mg/kg | 12.20.17 15.05 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 3680   | 14.9 | mg/kg | 12.20.17 15.05 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 465    | 14.9 | mg/kg | 12.20.17 15.05 |      | 1   |
| Total TPH                         | PHC635     | 4300   | 14.9 | mg/kg | 12.20.17 15.05 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 97         | %     | 70-135 | 12.20.17 15.05 |      |
| o-Terphenyl    | 84-15-1    | 83         | %     | 70-135 | 12.20.17 15.05 |      |

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.19.17 08.00

Basis: Wet Weight

Seq Number: 3036268

| Parameter      | Cas Number | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|----------------|------------|----------|---------|-------|----------------|------|-----|
| Benzene        | 71-43-2    | <0.00200 | 0.00200 | mg/kg | 12.19.17 16.14 | U    | 1   |
| Toluene        | 108-88-3   | <0.00200 | 0.00200 | mg/kg | 12.19.17 16.14 | U    | 1   |
| Ethylbenzene   | 100-41-4   | 0.00292  | 0.00200 | mg/kg | 12.19.17 16.14 |      | 1   |
| Xylenes, Total | 1330-20-7  | 0.0405   | 0.002   | mg/kg | 12.19.17 16.14 |      | 1   |
| Total BTEX     |            | 0.04342  | 0.002   | mg/kg | 12.19.17 16.14 |      | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 106        | %     | 80-120 | 12.19.17 16.14 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 94         | %     | 80-120 | 12.19.17 16.14 |      |



# Certificate of Analytical Results 571522



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: EW-3A @ 3'

Matrix: Soil

Date Received: 12.18.17 15.25

Lab Sample Id: 571522-005

Date Collected: 12.15.17 13.40

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: LRI

% Moisture:

Analyst: LRI

Date Prep: 12.21.17 11.45

Basis: Wet Weight

Seq Number: 3036662

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 70.5   | 4.97 | mg/kg | 12.21.17 15.55 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 12.20.17 07.00

Basis: Wet Weight

Seq Number: 3036532

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | <15.0  | 15.0 | mg/kg | 12.20.17 15.25 | U    | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | <15.0  | 15.0 | mg/kg | 12.20.17 15.25 | U    | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0  | 15.0 | mg/kg | 12.20.17 15.25 | U    | 1   |
| Total TPH                         | PHC635     | <15    | 15   | mg/kg | 12.20.17 15.25 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 75         | %     | 70-135 | 12.20.17 15.25 |      |
| o-Terphenyl    | 84-15-1    | 76         | %     | 70-135 | 12.20.17 15.25 |      |

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 12.21.17 13.00

Basis: Wet Weight

Seq Number: 3036624

| Parameter      | Cas Number | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|----------------|------------|----------|---------|-------|----------------|------|-----|
| Benzene        | 71-43-2    | <0.00202 | 0.00202 | mg/kg | 12.21.17 16.33 | U    | 1   |
| Toluene        | 108-88-3   | <0.00202 | 0.00202 | mg/kg | 12.21.17 16.33 | U    | 1   |
| Ethylbenzene   | 100-41-4   | <0.00202 | 0.00202 | mg/kg | 12.21.17 16.33 | U    | 1   |
| Xylenes, Total | 1330-20-7  | <0.00202 | 0.00202 | mg/kg | 12.21.17 16.33 | U    | 1   |
| Total BTEX     |            | <0.00202 | 0.00202 | mg/kg | 12.21.17 16.33 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 88         | %     | 80-120 | 12.21.17 16.33 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 92         | %     | 80-120 | 12.21.17 16.33 |      |



# Certificate of Analytical Results 571522



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: **SP-14**  
Lab Sample Id: 571522-006

Matrix: Soil  
Date Collected: 12.15.17 13.50

Date Received: 12.18.17 15.25

Analytical Method: Chloride by EPA 300  
Tech: LRI  
Analyst: LRI  
Seq Number: 3036662

Prep Method: E300P  
% Moisture:  
Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 315    | 4.91 | mg/kg | 12.21.17 16.02 |      | 1   |

Analytical Method: TPH by SW8015 Mod  
Tech: ARM  
Analyst: ARM  
Seq Number: 3036532

Prep Method: TX1005P  
% Moisture:  
Basis: Wet Weight

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 83.2       | 15.0  | mg/kg  | 12.20.17 15.45 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 2440       | 15.0  | mg/kg  | 12.20.17 15.45 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 384        | 15.0  | mg/kg  | 12.20.17 15.45 |      | 1   |
| Total TPH                         | PHC635     | 2907.2     | 15    | mg/kg  | 12.20.17 15.45 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 85         | %     | 70-135 | 12.20.17 15.45 |      |     |
| o-Terphenyl                       | 84-15-1    | 80         | %     | 70-135 | 12.20.17 15.45 |      |     |

Analytical Method: BTEX by EPA 8021B  
Tech: ALJ  
Analyst: ALJ  
Seq Number: 3036605

Prep Method: SW5030B  
% Moisture:  
Basis: Wet Weight

| Parameter            | Cas Number | Result     | RL      | Units  | Analysis Date  | Flag | Dil |
|----------------------|------------|------------|---------|--------|----------------|------|-----|
| Benzene              | 71-43-2    | <0.00202   | 0.00202 | mg/kg  | 12.20.17 13.41 | U    | 1   |
| Toluene              | 108-88-3   | 0.00327    | 0.00202 | mg/kg  | 12.20.17 13.41 |      | 1   |
| Ethylbenzene         | 100-41-4   | 0.00423    | 0.00202 | mg/kg  | 12.20.17 13.41 |      | 1   |
| Xylenes, Total       | 1330-20-7  | 0.0458     | 0.00202 | mg/kg  | 12.20.17 13.41 |      | 1   |
| Total BTEX           |            | 0.0533     | 0.00202 | mg/kg  | 12.20.17 13.41 |      | 1   |
| Surrogate            | Cas Number | % Recovery | Units   | Limits | Analysis Date  | Flag |     |
| 1,4-Difluorobenzene  | 540-36-3   | 87         | %       | 80-120 | 12.20.17 13.41 |      |     |
| 4-Bromofluorobenzene | 460-00-4   | 116        | %       | 80-120 | 12.20.17 13.41 |      |     |



# Certificate of Analytical Results 571522



## TRC Solutions, Inc, Midland, TX Gunslinger 11 Federal Com #001H (3/18/17)

Sample Id: **SP-15** Matrix: Soil Date Received: 12.18.17 15.25  
Lab Sample Id: 571522-007 Date Collected: 12.15.17 14.00  
Analytical Method: Chloride by EPA 300 Prep Method: E300P  
Tech: LRI % Moisture:  
Analyst: LRI Date Prep: 12.21.17 11.45 Basis: Wet Weight  
Seq Number: 3036662

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 201    | 5.00 | mg/kg | 12.21.17 16.23 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P  
Tech: ARM % Moisture:  
Analyst: ARM Date Prep: 12.20.17 07.00 Basis: Wet Weight  
Seq Number: 3036532

| Parameter                         | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 18.4   | 15.0 | mg/kg | 12.20.17 16.04 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 1290   | 15.0 | mg/kg | 12.20.17 16.04 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 228    | 15.0 | mg/kg | 12.20.17 16.04 |      | 1   |
| Total TPH                         | PHC635     | 1536.4 | 15   | mg/kg | 12.20.17 16.04 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 92         | %     | 70-135 | 12.20.17 16.04 |      |
| o-Terphenyl    | 84-15-1    | 92         | %     | 70-135 | 12.20.17 16.04 |      |

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B  
Tech: ALJ % Moisture:  
Analyst: ALJ Date Prep: 12.20.17 08.00 Basis: Wet Weight  
Seq Number: 3036605

| Parameter      | Cas Number | Result   | RL      | Units | Analysis Date  | Flag | Dil |
|----------------|------------|----------|---------|-------|----------------|------|-----|
| Benzene        | 71-43-2    | <0.00200 | 0.00200 | mg/kg | 12.20.17 14.00 | U    | 1   |
| Toluene        | 108-88-3   | <0.00200 | 0.00200 | mg/kg | 12.20.17 14.00 | U    | 1   |
| Ethylbenzene   | 100-41-4   | <0.00200 | 0.00200 | mg/kg | 12.20.17 14.00 | U    | 1   |
| Xylenes, Total | 1330-20-7  | 0.01386  | 0.002   | mg/kg | 12.20.17 14.00 |      | 1   |
| Total BTEX     |            | 0.01386  | 0.002   | mg/kg | 12.20.17 14.00 |      | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------------|------------|------------|-------|--------|----------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 88         | %     | 80-120 | 12.20.17 14.00 |      |
| 4-Bromofluorobenzene | 460-00-4   | 97         | %     | 80-120 | 12.20.17 14.00 |      |

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

**MDL** Method Detection Limit      **SDL** Sample Detection Limit      **LOD** Limit of Detection

**PQL** Practical Quantitation Limit      **MQL** Method Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

+ NELAC certification not offered for this compound.

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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## QC Summary 571522

TRC Solutions, Inc  
Gunslinger 11 Federal Com #001H (3/18/17)

**Analytical Method: Chloride by EPA 300**

Seq Number: 3036662

MB Sample Id: 7636374-1-BLK

Matrix: Solid

LCS Sample Id: 7636374-1-BKS

Prep Method: E300P

Date Prep: 12.21.17

LCSD Sample Id: 7636374-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Chloride  | <5.00     | 250          | 233        | 93       | 248         | 99        | 90-110 | 6    | 20        | mg/kg | 12.21.17 13:35 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3036662

Parent Sample Id: 571522-003

Matrix: Soil

MS Sample Id: 571522-003 S

Prep Method: E300P

Date Prep: 12.21.17

MSD Sample Id: 571522-003 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 303           | 250          | 552       | 100     | 550        | 99       | 90-110 | 0    | 20        | mg/kg | 12.21.17 15:34 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3036662

Parent Sample Id: 571620-002

Matrix: Soil

MS Sample Id: 571620-002 S

Prep Method: E300P

Date Prep: 12.21.17

MSD Sample Id: 571620-002 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 106           | 250          | 367       | 104     | 358        | 101      | 90-110 | 2    | 20        | mg/kg | 12.21.17 13:56 |      |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3036532

MB Sample Id: 7636363-1-BLK

Matrix: Solid

LCS Sample Id: 7636363-1-BKS

Prep Method: TX1005P

Date Prep: 12.20.17

LCSD Sample Id: 7636363-1-BSD

| Parameter                         | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <15.0     | 1000         | 907        | 91       | 917         | 92        | 70-135 | 1    | 35        | mg/kg | 12.20.17 09:03 |      |
| Diesel Range Organics (DRO)       | <15.0     | 1000         | 901        | 90       | 944         | 94        | 70-135 | 5    | 35        | mg/kg | 12.20.17 09:03 |      |

| Surrogate      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 80      |         | 86       |          | 88        |           | 70-135 | %     | 12.20.17 09:03 |
| o-Terphenyl    | 86      |         | 87       |          | 96        |           | 70-135 | %     | 12.20.17 09:03 |

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery

$[D] = 100 * (C - A) / B$   
 $RPD = 200 * | (C - E) / (C + E) |$   
 $[D] = 100 * (C) / [B]$

LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD Result

MS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec



# QC Summary 571522

## TRC Solutions, Inc Gunslinger 11 Federal Com #001H (3/18/17)

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3036532

Parent Sample Id: 571620-001

Matrix: Soil

MS Sample Id: 571620-001 S

Prep Method: TX1005P

Date Prep: 12.20.17

MSD Sample Id: 571620-001 SD

| Parameter                         | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <15.0         | 998          | 883       | 88      | 937        | 94       | 70-135 | 6    | 35        | mg/kg | 12.20.17 10:03 |      |
| Diesel Range Organics (DRO)       | <15.0         | 998          | 878       | 88      | 957        | 96       | 70-135 | 9    | 35        | mg/kg | 12.20.17 10:03 |      |

**Surrogate**

|                | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 84      |         | 92       |          | 70-135 | %     | 12.20.17 10:03 |
| o-Terphenyl    | 89      |         | 97       |          | 70-135 | %     | 12.20.17 10:03 |

**Analytical Method: BTEX by EPA 8021B**

Seq Number: 3036268

MB Sample Id: 7636215-1-BLK

Matrix: Solid

LCS Sample Id: 7636215-1-BKS

Prep Method: SW5030B

Date Prep: 12.19.17

LCSD Sample Id: 7636215-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00199  | 0.0996       | 0.0982     | 99       | 0.0981      | 98        | 70-130 | 0    | 35        | mg/kg | 12.19.17 07:58 |      |
| Toluene      | <0.00199  | 0.0996       | 0.0952     | 96       | 0.0948      | 95        | 70-130 | 0    | 35        | mg/kg | 12.19.17 07:58 |      |
| Ethylbenzene | <0.00199  | 0.0996       | 0.0991     | 99       | 0.0981      | 98        | 71-129 | 1    | 35        | mg/kg | 12.19.17 07:58 |      |

**Surrogate**

|                      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 95      |         | 95       |          | 95        |           | 80-120 | %     | 12.19.17 07:58 |
| 4-Bromofluorobenzene | 91      |         | 97       |          | 99        |           | 80-120 | %     | 12.19.17 07:58 |

**Analytical Method: BTEX by EPA 8021B**

Seq Number: 3036605

MB Sample Id: 7636367-1-BLK

Matrix: Solid

LCS Sample Id: 7636367-1-BKS

Prep Method: SW5030B

Date Prep: 12.20.17

LCSD Sample Id: 7636367-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00199  | 0.0996       | 0.102      | 102      | 0.0964      | 96        | 70-130 | 6    | 35        | mg/kg | 12.20.17 10:50 |      |
| Toluene      | <0.00199  | 0.0996       | 0.0981     | 98       | 0.0936      | 94        | 70-130 | 5    | 35        | mg/kg | 12.20.17 10:50 |      |
| Ethylbenzene | <0.00199  | 0.0996       | 0.101      | 101      | 0.0989      | 99        | 71-129 | 2    | 35        | mg/kg | 12.20.17 10:50 |      |

**Surrogate**

|                      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 92      |         | 99       |          | 99        |           | 80-120 | %     | 12.20.17 10:50 |
| 4-Bromofluorobenzene | 85      |         | 96       |          | 96        |           | 80-120 | %     | 12.20.17 10:50 |

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery

$[D] = 100 * (C - A) / B$   
 $RPD = 200 * |(C - E) / (C + E)|$   
 $[D] = 100 * (C) / [B]$

LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD Result

MS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec



## QC Summary 571522

### TRC Solutions, Inc Gunslinger 11 Federal Com #001H (3/18/17)

Analytical Method: BTEX by EPA 8021B

Seq Number: 3036624

MB Sample Id: 7636429-1-BLK

Matrix: Solid

LCS Sample Id: 7636429-1-BKS

Prep Method: SW5030B

Date Prep: 12.21.17

LCSD Sample Id: 7636429-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00202  | 0.101        | 0.0826     | 82       | 0.0851      | 85        | 70-130 | 3    | 35        | mg/kg | 12.21.17 13:48 |      |
| Toluene      | <0.00202  | 0.101        | 0.0764     | 76       | 0.0786      | 79        | 70-130 | 3    | 35        | mg/kg | 12.21.17 13:48 |      |
| Ethylbenzene | <0.00202  | 0.101        | 0.0828     | 82       | 0.0850      | 85        | 71-129 | 3    | 35        | mg/kg | 12.21.17 13:48 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 93      |         | 112      |          | 110       |           | 80-120 | %     | 12.21.17 13:48 |
| 4-Bromofluorobenzene | 83      |         | 110      |          | 119       |           | 80-120 | %     | 12.21.17 13:48 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3036268

Parent Sample Id: 571461-001

Matrix: Soil

MS Sample Id: 571461-001 S

Prep Method: SW5030B

Date Prep: 12.19.17

MSD Sample Id: 571461-001 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00336      | 0.168        | 0.139     | 83      | 0.155      | 93       | 70-130 | 11   | 35        | mg/kg | 12.19.17 12:23 |      |
| Toluene      | <0.00336      | 0.168        | 0.137     | 82      | 0.145      | 87       | 70-130 | 6    | 35        | mg/kg | 12.19.17 12:23 |      |
| Ethylbenzene | <0.00336      | 0.168        | 0.144     | 86      | 0.148      | 89       | 71-129 | 3    | 35        | mg/kg | 12.19.17 12:23 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 97      |         | 104      |          | 80-120 | %     | 12.19.17 12:23 |
| 4-Bromofluorobenzene | 95      |         | 97       |          | 80-120 | %     | 12.19.17 12:23 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3036605

Parent Sample Id: 571522-001

Matrix: Soil

MS Sample Id: 571522-001 S

Prep Method: SW5030B

Date Prep: 12.20.17

MSD Sample Id: 571522-001 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00201      | 0.100        | 0.0674    | 67      | 0.0619     | 61       | 70-130 | 9    | 35        | mg/kg | 12.20.17 11:28 | X    |
| Toluene      | <0.00201      | 0.100        | 0.0566    | 57      | 0.0518     | 51       | 70-130 | 9    | 35        | mg/kg | 12.20.17 11:28 | X    |
| Ethylbenzene | <0.00201      | 0.100        | 0.0490    | 49      | 0.0432     | 43       | 71-129 | 13   | 35        | mg/kg | 12.20.17 11:28 | X    |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 90      |         | 94       |          | 80-120 | %     | 12.20.17 11:28 |
| 4-Bromofluorobenzene | 85      |         | 88       |          | 80-120 | %     | 12.20.17 11:28 |

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery

$[D] = 100 * (C - A) / B$   
 $RPD = 200 * | (C - E) / (C + E) |$   
 $[D] = 100 * (C) / [B]$

LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD Result

MS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec

TRC Solutions, Inc  
Gunslinger 11 Federal Com #001H (3/18/17)

Analytical Method: BTEX by EPA 8021B

Seq Number: 3036624

Parent Sample Id: 571522-005

Matrix: Soil

MS Sample Id: 571522-005 S

Prep Method: SW5030B

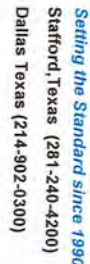
Date Prep: 12.21.17

MSD Sample Id: 571522-005 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00199      | 0.0994       | 0.0734    | 74      | 0.0880     | 88       | 70-130 | 18   | 35        | mg/kg | 12.21.17 23:31 |      |
| Toluene      | <0.00199      | 0.0994       | 0.0689    | 69      | 0.0833     | 83       | 70-130 | 19   | 35        | mg/kg | 12.21.17 23:31 | X    |
| Ethylbenzene | <0.00199      | 0.0994       | 0.0721    | 73      | 0.0767     | 77       | 71-129 | 6    | 35        | mg/kg | 12.21.17 23:31 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 103     |         | 89       |          | 80-120 | %     | 12.21.17 23:31 |
| 4-Bromofluorobenzene | 98      |         | 92       |          | 80-120 | %     | 12.21.17 23:31 |

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery $[D] = 100 * (C - A) / B$   
 $RPD = 200 * |(C - E) / (C + E)|$   
 $[D] = 100 * (C) / [B]$ LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD ResultMS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec



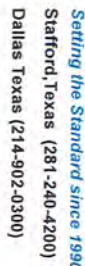
## Page 1 Of 1

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Midland, Texas (432-704-5251)

Phoenix, Arizona (480-355-0900)

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| Client / Reporting Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |              |            |      |        | Project Information                                                                                                                                                |     |                 |      |                             |      | Analytical Information                                                                                  |      |            |   |                 |   | Matrix Codes                                                 |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------|------------|------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------|------|-----------------------------|------|---------------------------------------------------------------------------------------------------------|------|------------|---|-----------------|---|--------------------------------------------------------------|--|--|--|--|--|
| Company Name / Branch:<br>TRC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                |              |            |      |        | Project Name/Number:<br>Gunslinger 11 Federal Com #001H (3/8/17)                                                                                                   |     |                 |      |                             |      |                                                                                                         |      |            |   |                 |   |                                                              |  |  |  |  |  |
| Company Address:<br>2057 Commerce Drive<br>Midland, Texas 79703                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                |              |            |      |        | Project Location:<br>Lea County, NM                                                                                                                                |     |                 |      |                             |      |                                                                                                         |      |            |   |                 |   |                                                              |  |  |  |  |  |
| Email:<br><a href="mailto:nlgreen@tcsolutions.com">nlgreen@tcsolutions.com</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |              |            |      |        | Invoice To:<br>Rebecca Haskell with COG Operating LLC haskell@concho.com<br>600 W Illinois Avenue   Midland, TX 79701<br>Direct: 432-818-2372   Main: 432-883,7443 |     |                 |      |                             |      |                                                                                                         |      |            |   |                 |   |                                                              |  |  |  |  |  |
| Phone No:<br>432-664-6699                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                |              |            |      |        |                                                                                                                                                                    |     |                 |      |                             |      |                                                                                                         |      |            |   |                 |   |                                                              |  |  |  |  |  |
| Project Contact:<br>NIKKI Green                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                |              |            |      |        | PO Number:                                                                                                                                                         |     |                 |      |                             |      |                                                                                                         |      |            |   |                 |   |                                                              |  |  |  |  |  |
| Samplers's Name: NIKKI Green                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                |              |            |      |        |                                                                                                                                                                    |     |                 |      |                             |      |                                                                                                         |      |            |   |                 |   |                                                              |  |  |  |  |  |
| No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Field ID / Point of Collection |              |            |      |        | Collection                                                                                                                                                         |     | # of bottles    |      | Number of preserved bottles |      | TPH 8015M EXT 36                                                                                        |      | BTEX 8021B |   | Chloride E300.0 |   |                                                              |  |  |  |  |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NW-1A @ 3"                     | Sample Depth | Date       | Time | Matrix | # of bottles                                                                                                                                                       | HCl | NaOH/Zn Acetate | HNO3 | H2SO4                       | NaOH | NaHSO4                                                                                                  | MEOH | NONE       | X | X               | X |                                                              |  |  |  |  |  |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | EW-1A @ 3"                     |              | 12/15/2017 | 1300 | S      | 1                                                                                                                                                                  |     |                 |      |                             |      |                                                                                                         |      |            | X | X               | X |                                                              |  |  |  |  |  |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | VW-1A @ 3"                     |              | 12/15/2017 | 1310 | S      | 1                                                                                                                                                                  |     |                 |      |                             |      |                                                                                                         |      |            | X | X               | X |                                                              |  |  |  |  |  |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NW-2A @ 6"                     |              | 12/15/2017 | 1320 | S      | 1                                                                                                                                                                  |     |                 |      |                             |      |                                                                                                         |      |            | X | X               | X |                                                              |  |  |  |  |  |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | EW-3A @ 3'                     |              | 12/15/2017 | 1330 | S      | 1                                                                                                                                                                  |     |                 |      |                             |      |                                                                                                         |      |            | X | X               | X |                                                              |  |  |  |  |  |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SP-14                          |              | 12/15/2017 | 1340 | S      | 1                                                                                                                                                                  |     |                 |      |                             |      |                                                                                                         |      |            | X | X               | X |                                                              |  |  |  |  |  |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SP-15                          |              | 12/15/2017 | 1350 | S      | 1                                                                                                                                                                  |     |                 |      |                             |      |                                                                                                         |      |            | X | X               | X |                                                              |  |  |  |  |  |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                |              |            |      |        |                                                                                                                                                                    |     |                 |      |                             |      |                                                                                                         |      |            | X | X               | X |                                                              |  |  |  |  |  |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                |              |            |      |        |                                                                                                                                                                    |     |                 |      |                             |      |                                                                                                         |      |            |   |                 |   |                                                              |  |  |  |  |  |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |              |            |      |        |                                                                                                                                                                    |     |                 |      |                             |      |                                                                                                         |      |            |   |                 |   |                                                              |  |  |  |  |  |
| Turnaround Time (Business days)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                |              |            |      |        | Data Deliverable Information                                                                                                                                       |     |                 |      |                             |      |                                                                                                         |      |            |   |                 |   |                                                              |  |  |  |  |  |
| <input type="checkbox"/> Same Day TAT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                |              |            |      |        | <input checked="" type="checkbox"/> 5 Day TAT                                                                                                                      |     |                 |      |                             |      | <input type="checkbox"/> Level II Std QC                                                                |      |            |   |                 |   | <input type="checkbox"/> Level IV (Full Data Pkg / raw data) |  |  |  |  |  |
| <input type="checkbox"/> Next Day EMERGENCY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                |              |            |      |        | <input type="checkbox"/> 7 Day TAT                                                                                                                                 |     |                 |      |                             |      | <input type="checkbox"/> Level III Std QC+ Forms                                                        |      |            |   |                 |   | <input type="checkbox"/> TRRP Level IV                       |  |  |  |  |  |
| <input type="checkbox"/> 2 Day EMERGENCY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                |              |            |      |        | <input checked="" type="checkbox"/> Contract TAT                                                                                                                   |     |                 |      |                             |      | <input type="checkbox"/> Level 3 (CLP Forms)                                                            |      |            |   |                 |   | <input type="checkbox"/> UST / RG -411                       |  |  |  |  |  |
| <input type="checkbox"/> 3 Day EMERGENCY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                |              |            |      |        |                                                                                                                                                                    |     |                 |      |                             |      | <input type="checkbox"/> TRRP Checklist                                                                 |      |            |   |                 |   |                                                              |  |  |  |  |  |
| TAT Starts Day received by Lab, if received by 5:00 pm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                |              |            |      |        |                                                                                                                                                                    |     |                 |      |                             |      | FED-EX / UPS: Tracking #                                                                                |      |            |   |                 |   |                                                              |  |  |  |  |  |
| Relinquished by Sample:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                |              |            |      |        |                                                                                                                                                                    |     |                 |      |                             |      | SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY |      |            |   |                 |   |                                                              |  |  |  |  |  |
| Date Time: 12/16/17 1525                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                |              |            |      |        |                                                                                                                                                                    |     |                 |      |                             |      | Received By: [Signature]                                                                                |      |            |   |                 |   |                                                              |  |  |  |  |  |
| Relinquished by: [Signature]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                |              |            |      |        |                                                                                                                                                                    |     |                 |      |                             |      | Relinquished By: [Signature]                                                                            |      |            |   |                 |   |                                                              |  |  |  |  |  |
| Date Time:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |              |            |      |        |                                                                                                                                                                    |     |                 |      |                             |      | Received By:                                                                                            |      |            |   |                 |   |                                                              |  |  |  |  |  |
| Date Time:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |              |            |      |        |                                                                                                                                                                    |     |                 |      |                             |      | Relinquished By:                                                                                        |      |            |   |                 |   |                                                              |  |  |  |  |  |
| Received By:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                |              |            |      |        |                                                                                                                                                                    |     |                 |      |                             |      | Custody Seal #                                                                                          |      |            |   |                 |   |                                                              |  |  |  |  |  |
| Preserved where applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |              |            |      |        |                                                                                                                                                                    |     |                 |      |                             |      | On Ice                                                                                                  |      |            |   |                 |   |                                                              |  |  |  |  |  |
| Cooler Temp.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                |              |            |      |        |                                                                                                                                                                    |     |                 |      |                             |      | Thermo. Corr. Factor                                                                                    |      |            |   |                 |   |                                                              |  |  |  |  |  |
| Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract. |                                |              |            |      |        |                                                                                                                                                                    |     |                 |      |                             |      |                                                                                                         |      |            |   |                 |   |                                                              |  |  |  |  |  |



**XENCO Laboratories**  
**Prelogin/Nonconformance Report- Sample Log-In**



**Client:** TRC Solutions, Inc

**Date/ Time Received:** 12/18/2017 03:25:00 PM

**Work Order #:** 571522

**Acceptable Temperature Range:** 0 - 6 degC

**Air and Metal samples Acceptable Range:** Ambient

**Temperature Measuring device used :** R8

**Sample Receipt Checklist**

**Comments**

|                                                         |     |
|---------------------------------------------------------|-----|
| #1 *Temperature of cooler(s)?                           | 5.1 |
| #2 *Shipping container in good condition?               | Yes |
| #3 *Samples received on ice?                            | Yes |
| #4 *Custody Seals intact on shipping container/ cooler? | N/A |
| #5 Custody Seals intact on sample bottles?              | N/A |
| #6 *Custody Seals Signed and dated?                     | N/A |
| #7 *Chain of Custody present?                           | Yes |
| #8 Any missing/extra samples?                           | No  |
| #9 Chain of Custody signed when relinquished/ received? | Yes |
| #10 Chain of Custody agrees with sample labels/matrix?  | Yes |
| #11 Container label(s) legible and intact?              | Yes |
| #12 Samples in proper container/ bottle?                | Yes |
| #13 Samples properly preserved?                         | Yes |
| #14 Sample container(s) intact?                         | Yes |
| #15 Sufficient sample amount for indicated test(s)?     | Yes |
| #16 All samples received within hold time?              | Yes |
| #17 Subcontract of sample(s)?                           | No  |
| #18 Water VOC samples have zero headspace?              | N/A |

**\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

**Checklist completed by:**

Shawnee Smith

Date: 12/19/2017

**Checklist reviewed by:**

Kelsey Brooks

Date: 12/26/2017



# Certificate of Analysis Summary 573261

TRC Solutions, Inc, Midland, TX

Project Name: Gunslinger 11 Federal Com # 001



Project Id: 8021  
Contact: Joel Lowry  
Project Location: Lea Co, NM

Date Received in Lab: Wed Jan-10-18 04:21 pm  
Report Date: 17-JAN-18  
Project Manager: Kelsey Brooks

|                                   |                   |                 |                 |  |  |  |  |
|-----------------------------------|-------------------|-----------------|-----------------|--|--|--|--|
| <b>Analysis Requested</b>         | <b>Lab Id:</b>    | 573261-001      | 573261-002      |  |  |  |  |
|                                   | <b>Field Id:</b>  | WW-1b @ 3"      | SP-14b          |  |  |  |  |
|                                   | <b>Depth:</b>     | 3"-             |                 |  |  |  |  |
|                                   | <b>Matrix:</b>    | SOIL            | SOIL            |  |  |  |  |
|                                   | <b>Sampled:</b>   | Jan-09-18 09:18 | Jan-09-18 10:30 |  |  |  |  |
| <b>TPH by SW8015 Mod</b>          | <b>Extracted:</b> | Jan-12-18 10:00 | Jan-12-18 10:00 |  |  |  |  |
|                                   | <b>Analyzed:</b>  | Jan-13-18 02:21 | Jan-13-18 04:06 |  |  |  |  |
|                                   | <b>Units/RL:</b>  | mg/kg RL        | mg/kg RL        |  |  |  |  |
| Gasoline Range Hydrocarbons (GRO) |                   | 23.0 15.0       | 210 15.0        |  |  |  |  |
| Diesel Range Organics (DRO)       |                   | 120 15.0        | 2050 15.0       |  |  |  |  |
| Oil Range Hydrocarbons (ORO)      |                   | <15.0 15.0      | 385 15.0        |  |  |  |  |
| Total TPH                         |                   | 143 15          | 2645 15         |  |  |  |  |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.0%

Kelsey Brooks  
Project Manager

# Analytical Report 573261

for  
**TRC Solutions, Inc**

**Project Manager: Joel Lowry**  
**Gunslinger 11 Federal Com # 001**

**17-JAN-18**

Collected By: Client



**1211 W. Florida Ave, Midland TX 79701**

Xenco-Houston (EPA Lab code: TX00122):  
Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)  
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab code: TX01468):  
Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)  
Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)  
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)  
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)  
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



17-JAN-18

Project Manager: **Joel Lowry**  
**TRC Solutions, Inc**  
2057 Commerce  
Midland, TX 79703

Reference: XENCO Report No(s): **573261**  
**Gunslinger 11 Federal Com # 001**  
Project Address: Lea Co, NM

**Joel Lowry:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 573261. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 573261 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

**Kelsey Brooks**

Project Manager

***Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.***

*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

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## Sample Cross Reference 573261



**TRC Solutions, Inc, Midland, TX**

Gunslinger 11 Federal Com # 001

| Sample Id  | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|------------|--------|----------------|--------------|---------------|
| WW-1b @ 3" | S      | 01-09-18 09:18 | 3"           | 573261-001    |
| SP-14b     | S      | 01-09-18 10:30 |              | 573261-002    |



## CASE NARRATIVE

**Client Name:** *TRC Solutions, Inc*

**Project Name:** *Gunslinger 11 Federal Com # 001*

Project ID: 8021  
Work Order Number(s): 573261

Report Date: 17-JAN-18  
Date Received: 01/10/2018

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**Sample receipt non conformances and comments:**

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**Sample receipt non conformances and comments per sample:**

None



# Certificate of Analytical Results 573261



## TRC Solutions, Inc, Midland, TX

Gunslinger 11 Federal Com # 001

Sample Id: **WW-1b @ 3"**

Matrix: Soil

Date Received: 01.10.18 16.21

Lab Sample Id: 573261-001

Date Collected: 01.09.18 09.18

Sample Depth: 3"

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.12.18 10.00

Basis: Wet Weight

Seq Number: 3038390

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 23.0       | 15.0  | mg/kg  | 01.13.18 02.21 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 120        | 15.0  | mg/kg  | 01.13.18 02.21 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | <15.0      | 15.0  | mg/kg  | 01.13.18 02.21 | U    | 1   |
| Total TPH                         | PHC635     | 143        | 15    | mg/kg  | 01.13.18 02.21 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 80         | %     | 70-135 | 01.13.18 02.21 |      |     |
| o-Terphenyl                       | 84-15-1    | 82         | %     | 70-135 | 01.13.18 02.21 |      |     |



# Certificate of Analytical Results 573261



## TRC Solutions, Inc, Midland, TX

Gunslinger 11 Federal Com # 001

Sample Id: **SP-14b**  
Lab Sample Id: 573261-002

Matrix: Soil  
Date Collected: 01.09.18 10.30

Date Received: 01.10.18 16.21

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.12.18 10.00

Basis: Wet Weight

Seq Number: 3038390

| Parameter                         | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|-----------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610     | 210        | 15.0  | mg/kg  | 01.13.18 04.06 |      | 1   |
| Diesel Range Organics (DRO)       | C10C28DRO  | 2050       | 15.0  | mg/kg  | 01.13.18 04.06 |      | 1   |
| Oil Range Hydrocarbons (ORO)      | PHCG2835   | 385        | 15.0  | mg/kg  | 01.13.18 04.06 |      | 1   |
| Total TPH                         | PHC635     | 2645       | 15    | mg/kg  | 01.13.18 04.06 |      | 1   |
| Surrogate                         | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                    | 111-85-3   | 84         | %     | 70-135 | 01.13.18 04.06 |      |     |
| o-Terphenyl                       | 84-15-1    | 70         | %     | 70-135 | 01.13.18 04.06 |      |     |

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

**MDL** Method Detection Limit      **SDL** Sample Detection Limit      **LOD** Limit of Detection

**PQL** Practical Quantitation Limit      **MQL** Method Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

+ NELAC certification not offered for this compound.

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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| (210) 509-3334 | (210) 509-3335 |
| (432) 563-1800 | (432) 563-1713 |
| (602) 437-0330 |                |



## QC Summary 573261

TRC Solutions, Inc  
Gunslinger 11 Federal Com # 001

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3038390

MB Sample Id: 7637443-1-BLK

Matrix: Solid

LCS Sample Id: 7637443-1-BKS

Prep Method: TX1005P

Date Prep: 01.12.18

| Parameter                         | MB Result | Spike Amount | LCS Result | LCS %Rec | Limits | Units | Analysis Date  | Flag |
|-----------------------------------|-----------|--------------|------------|----------|--------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <15.0     | 1000         | 862        | 86       | 70-135 | mg/kg | 01.12.18 19:11 |      |
| Diesel Range Organics (DRO)       | <15.0     | 1000         | 861        | 86       | 70-135 | mg/kg | 01.12.18 19:11 |      |

| Surrogate      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 91      |         | 80       |          | 70-135 | %     | 01.12.18 19:11 |
| o-Terphenyl    | 96      |         | 95       |          | 70-135 | %     | 01.12.18 19:11 |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3038390

Parent Sample Id: 573261-001

Matrix: Soil

MS Sample Id: 573261-001 S

Prep Method: TX1005P

Date Prep: 01.12.18

MSD Sample Id: 573261-001 SD

| Parameter                         | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | 23.0          | 1000         | 796       | 77      | 831        | 81       | 70-135 | 4    | 35        | mg/kg | 01.13.18 02:42 |      |
| Diesel Range Organics (DRO)       | 120           | 1000         | 856       | 74      | 870        | 75       | 70-135 | 2    | 35        | mg/kg | 01.13.18 02:42 |      |

| Surrogate      | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 85      |         | 88       |          | 70-135 | %     | 01.13.18 02:42 |
| o-Terphenyl    | 101     |         | 81       |          | 70-135 | %     | 01.13.18 02:42 |

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery

$[D] = 100 * (C-A) / B$   
 $RPD = 200 * |(C-E) / (C+E)|$   
 $[D] = 100 * (C) / [B]$

LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD Result

MS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec

# CHAIN OF CUSTODY

Page 1 OF 1

San Antonio, Texas (210-509-3334)  
 Midland, Texas (432-704-5251)

www.xenco.com

Phoenix, Arizona (480-355-0900)

| Client / Reporting Information                               |                                |                                                  |          | Project Information                                    |        |                                                              |     | Analytical Information                         |      |              |      | Matrix Codes |      |              |                |                |            |      |                |  |  |
|--------------------------------------------------------------|--------------------------------|--------------------------------------------------|----------|--------------------------------------------------------|--------|--------------------------------------------------------------|-----|------------------------------------------------|------|--------------|------|--------------|------|--------------|----------------|----------------|------------|------|----------------|--|--|
| Company Name / Branch:<br>TRC Environmental Corporation      |                                |                                                  |          | Project Name/Number:<br>Gunslinger 11 Federal Com #001 |        |                                                              |     |                                                |      |              |      |              |      |              |                |                |            |      |                |  |  |
| Company Address:<br>2057 Commerce Drive<br>Midland, TX 79703 |                                |                                                  |          | Project Location:<br>Lea Co, NM                        |        |                                                              |     |                                                |      |              |      |              |      |              |                |                |            |      |                |  |  |
| Email:<br>jlwry@trcsolutions.com<br>zconder@trcsolutions.com |                                |                                                  |          | Phone No:<br>432-466-4450                              |        |                                                              |     | Invoice To:<br>COG Operating C/O Becky Haskell |      |              |      |              |      |              |                |                |            |      |                |  |  |
| Project Contact:<br>Joel Lowry                               |                                |                                                  |          | Invoice:                                               |        |                                                              |     |                                                |      |              |      |              |      |              |                |                |            |      |                |  |  |
| Sampler's Name: Zach Conder                                  |                                |                                                  |          |                                                        |        |                                                              |     |                                                |      |              |      |              |      |              |                |                |            |      |                |  |  |
| No.                                                          | Field ID / Point of Collection | Sample Depth                                     | Date     | Time                                                   | Matrix | # of bottles                                                 | HCl | NaOH/Zn Acetate                                | HNO3 | H2SO4        | NaOH | NaHSO4       | MEOH | NONE         | TPH 8015 M Ext | Chloride E 300 | BTEX 8021B | Hold | Field Comments |  |  |
| 1                                                            | WW-1b @ 3"                     | 3"                                               | 1/9/2018 | 9:18                                                   | S      | 1                                                            |     |                                                |      |              |      |              |      |              | X              |                |            |      |                |  |  |
| 2                                                            | SP-14b                         | Comp.                                            | 1/9/2018 | 10:30                                                  | S      | 1                                                            |     |                                                |      |              |      |              |      |              | X              |                |            |      |                |  |  |
| 3                                                            |                                |                                                  |          |                                                        |        |                                                              |     |                                                |      |              |      |              |      |              |                |                |            |      |                |  |  |
| 4                                                            |                                |                                                  |          |                                                        |        |                                                              |     |                                                |      |              |      |              |      |              |                |                |            |      |                |  |  |
| 5                                                            |                                |                                                  |          |                                                        |        |                                                              |     |                                                |      |              |      |              |      |              |                |                |            |      |                |  |  |
| 6                                                            |                                |                                                  |          |                                                        |        |                                                              |     |                                                |      |              |      |              |      |              |                |                |            |      |                |  |  |
| 7                                                            |                                |                                                  |          |                                                        |        |                                                              |     |                                                |      |              |      |              |      |              |                |                |            |      |                |  |  |
| 8                                                            |                                |                                                  |          |                                                        |        |                                                              |     |                                                |      |              |      |              |      |              |                |                |            |      |                |  |  |
| 9                                                            |                                |                                                  |          |                                                        |        |                                                              |     |                                                |      |              |      |              |      |              |                |                |            |      |                |  |  |
| 10                                                           |                                |                                                  |          |                                                        |        |                                                              |     |                                                |      |              |      |              |      |              |                |                |            |      |                |  |  |
| Turnaround Time (Business days)                              |                                |                                                  |          |                                                        |        |                                                              |     |                                                |      |              |      |              |      |              |                |                |            |      |                |  |  |
| <input type="checkbox"/> Same Day TAT                        |                                | <input type="checkbox"/> 6 Day TAT               |          | <input type="checkbox"/> Level II Std QC               |        | <input type="checkbox"/> Level IV (Full Data Pkg / raw data) |     |                                                |      |              |      |              |      |              |                |                |            |      |                |  |  |
| <input type="checkbox"/> Next Day EMERGENCY                  |                                | <input type="checkbox"/> 7 Day TAT               |          | <input type="checkbox"/> Level III Std QC + Forms      |        | <input type="checkbox"/> TRRP Level IV                       |     |                                                |      |              |      |              |      |              |                |                |            |      |                |  |  |
| <input type="checkbox"/> 2 Day EMERGENCY                     |                                | <input checked="" type="checkbox"/> Contract TAT |          | <input type="checkbox"/> Level 3 (CLP Forms)           |        | <input type="checkbox"/> UST / RG -411                       |     |                                                |      |              |      |              |      |              |                |                |            |      |                |  |  |
| <input type="checkbox"/> 3 Day EMERGENCY                     |                                |                                                  |          | <input type="checkbox"/> TRRP Checklist                |        |                                                              |     |                                                |      |              |      |              |      |              |                |                |            |      |                |  |  |
| TAT Starts Day received by Lab, if received by 5:00 pm       |                                |                                                  |          |                                                        |        |                                                              |     |                                                |      |              |      |              |      |              |                |                |            |      |                |  |  |
| Relinquished by Sample:                                      |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
| Relinquished by:                                             |                                | 1-10-18 16:27                                    |          | K. Henderson                                           |        | Relinquished By:                                             |     | 1-10-18 4:21                                   |      | 2            |      | Received By: |      | 4            |                |                |            |      |                |  |  |
| Relinquished by:                                             |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
| Relinquished by:                                             |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
| Relinquished by:                                             |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
| Relinquished by:                                             |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
| Relinquished by:                                             |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
| Relinquished by:                                             |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
| Relinquished by:                                             |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
| Relinquished by:                                             |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
| Relinquished by:                                             |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
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| Relinquished by:                                             |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
| Relinquished by:                                             |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
| Relinquished by:                                             |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
| Relinquished by:                                             |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
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| Relinquished by:                                             |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
| Relinquished by:                                             |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
| Relinquished by:                                             |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
| Relinquished by:                                             |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
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| Relinquished by:                                             |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
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| Relinquished by:                                             |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
| Relinquished by:                                             |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
| Relinquished by:                                             |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
| Relinquished by:                                             |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
| Relinquished by:                                             |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
| Relinquished by:                                             |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
| Relinquished by:                                             |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
| Relinquished by:                                             |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
| Relinquished by:                                             |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
| Relinquished by:                                             |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
| Relinquished by:                                             |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
| Relinquished by:                                             |                                | Date Time:                                       |          | Received By:                                           |        | Relinquished By:                                             |     | Date Time:                                     |      | Received By: |      | Date Time:   |      | Received By: |                |                |            |      |                |  |  |
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**XENCO Laboratories**  
**Prelogin/Nonconformance Report- Sample Log-In**



**Client:** TRC Solutions, Inc

**Date/ Time Received:** 01/10/2018 04:21:00 PM

**Work Order #:** 573261

**Acceptable Temperature Range:** 0 - 6 degC

**Air and Metal samples Acceptable Range:** Ambient

**Temperature Measuring device used :** R8

| Sample Receipt Checklist                                | Comments |
|---------------------------------------------------------|----------|
| #1 *Temperature of cooler(s)?                           | .3       |
| #2 *Shipping container in good condition?               | Yes      |
| #3 *Samples received on ice?                            | Yes      |
| #4 *Custody Seals intact on shipping container/ cooler? | N/A      |
| #5 Custody Seals intact on sample bottles?              | N/A      |
| #6 *Custody Seals Signed and dated?                     | N/A      |
| #7 *Chain of Custody present?                           | Yes      |
| #8 Any missing/extra samples?                           | No       |
| #9 Chain of Custody signed when relinquished/ received? | Yes      |
| #10 Chain of Custody agrees with sample labels/matrix?  | Yes      |
| #11 Container label(s) legible and intact?              | Yes      |
| #12 Samples in proper container/ bottle?                | Yes      |
| #13 Samples properly preserved?                         | Yes      |
| #14 Sample container(s) intact?                         | Yes      |
| #15 Sufficient sample amount for indicated test(s)?     | Yes      |
| #16 All samples received within hold time?              | Yes      |
| #17 Subcontract of sample(s)?                           | No       |
| #18 Water VOC samples have zero headspace?              | N/A      |

**\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

**Checklist completed by:**

Connie Hernandez

Date: 01/11/2018

**Checklist reviewed by:**

Kelsey Brooks

Date: 01/11/2018

## Photographic Log

**Client:** COG Operating, LLC

**Project Name:** Gunslinger 11 Federal Com #001

**Prepared by:** TRC Environmental Corp.

**Location:** Lea County, NM

**Photograph No. 1**

**Description:**  
**View of the**  
**affected area.**

**Direction:**  
**North**



**Photograph No. 2**

**Description:**  
**View of the**  
**affected area.**

**Direction:**  
**Northeast**



## Photographic Log

**Client:** COG Operating, LLC

**Project Name:** Gunslinger 11 Federal Com #001

**Prepared by:** TRC Environmental Corp.

**Location:** Lea County, NM

### Photograph No. 3

**Description:**  
View of the  
affected area.

**Direction:**  
East



### Photograph No. 4

**Description:**  
View of portion of  
the excavated  
area.

**Direction:**  
South



## Photographic Log

**Client:** COG Operating, LLC

**Project Name:** Gunslinger 11 Federal Com #001

**Prepared by:** TRC Environmental Corp.

**Location:** Lea County, NM

**Photograph No. 5**

**Description:**  
View of portion of  
the excavated  
area.

**Direction:**  
East



**Photograph No. 6**

**Description:**  
View of portion of  
the excavated  
area.

**Direction:**  
North



## Photographic Log

**Client:** COG Operating, LLC

**Project Name:** Gunslinger 11 Federal Com #001

**Prepared by:** TRC Environmental Corp.

**Location:** Lea County, NM

**Photograph No. 7**

**Description:**  
View of the  
affected area after  
remediation  
activities.

**Direction:**  
Northwest



**Photograph No. 8**

**Description:**  
View of the  
affected area after  
remediation  
activities.

**Direction:**  
North



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

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

Form C-141  
Revised August 8, 2011

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: COG Operating LLC OGRID # 229137   | Contact: Robert McNeill     |                      |
| Address: 600 West Illinois Avenue, Midland TX 79701 | Telephone No. 432-683-7443  |                      |
| Facility Name: Gunslinger 11 Federal Com #001       | Facility Type: Tank Battery |                      |
| Surface Owner: Federal                              | Mineral Owner:              | API No. 30-025-36797 |

**LOCATION OF RELEASE**

|                  |               |                 |              |                      |                           |                      |                        |               |
|------------------|---------------|-----------------|--------------|----------------------|---------------------------|----------------------|------------------------|---------------|
| Unit Letter<br>M | Section<br>11 | Township<br>20S | Range<br>33E | Feet from the<br>810 | North/South Line<br>South | Feet from the<br>660 | East/West Line<br>West | County<br>Lea |
|------------------|---------------|-----------------|--------------|----------------------|---------------------------|----------------------|------------------------|---------------|

Latitude 32.582877 Longitude -103.640467

**NATURE OF RELEASE**

|                                                                                                                                          |                                                        |                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|
| Type of Release:<br>Oil and Produced Water                                                                                               | Volume of Release:<br>25 bbls Oil & 15 bbls PW         | Volume Recovered:<br>20 bbls Oil & 10 bbls PW         |
| Source of Release:<br>Heater Treater                                                                                                     | Date and Hour of Occurrence:<br>March 18, 2017 9:30 am | Date and Hour of Discovery:<br>March 18, 2017 9:30 am |
| Was Immediate Notice Given?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom?                                       |                                                       |
| By Whom?                                                                                                                                 | Date and Hour:                                         |                                                       |
| Was a Watercourse Reached?<br><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.\*

The release was caused by pressure valve failure on a heater treater, causing fluids to be released through the relief valve. The pressure valve was replaced.

Describe Area Affected and Cleanup Action Taken.\*

The release was within and unlined facility with overspray on the adjacent pasture. A vacuum truck was dispatched to remove all freestanding fluids. Concho will have the spill area sampled to delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

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: <i>Rebecca Haskell</i>                                            | <b>OIL CONSERVATION DIVISION</b>      |                                   |
| Printed Name: Rebecca Haskell                                                | Approved by Environmental Specialist: |                                   |
| Title: Senior HSE Coordinator                                                | Approval Date:                        | Expiration Date:                  |
| E-mail Address: <a href="mailto:rhaskell@concho.com">rhaskell@concho.com</a> | Conditions of Approval:               | Attached <input type="checkbox"/> |
| Date: March 21, 2017 Phone: 432-683-7443                                     |                                       |                                   |

\* Attach Additional Sheets If Necessary