



APPROVED
By Olivia Yu at 11:38 am, Jul 25, 2018

#5E27122-BG13

July 10, 2018

NMOCD District I
Olivia Yu
1625 N French Dr
Hobbs, NM 88240

NMOCD approves of the delineation and remediation completed for 1RP-5046. Provide photo documentation of the backfilled area.

SUBJECT: SOIL REMEDIATION CLOSURE REPORT FOR THE INCIDENT AT THE ANGELL COM #1 (1RP-5046), LEA COUNTY, NEW MEXICO

Dear Ms. Yu:

On behalf of Marathon Oil Company (Marathon), Souder, Miller & Associates (SMA) has prepared this CLOSURE REPORT that describes the assessment, and remediation for a release associated with the Angell Com #1. The site is located in UNIT A, SECTION 11, TOWNSHIP 17S, RANGE 36E, NMPM, Lea County, New Mexico, on Private land. Figure 1 illustrates the vicinity and location of the site. Table 1, below, summarizes information regarding the release.

| Table 1: Release information and Site Ranking | |
|---|---|
| Name | Angell Com #1 |
| Company | Marathon Oil Company |
| Incident Number | 1RP-5046 |
| API Number | 30-025-37902 |
| Location | 32.855019, -103.318259 |
| Estimated Date of Release | 10/5/2017 |
| Date Reported to NMOCD | 10/23/2017 |
| Land Owner | Private |
| Reported To | NMOCD District I |
| Source of Release | Tank overflow |
| Released Material | Oil |
| Released Volume | 12 bbls |
| Recovered Volume | 11 bbls |
| Net Release | 1 bbls |
| Nearest Waterway | an unnamed playa is approximately 4000 feet southwest of the location |
| Depth to Groundwater | Estimated to be less than 50 feet |
| Nearest Domestic Water Source | Greater than 1,000 feet |
| NMOCD Ranking | 20 |
| SMA Response Dates | 5/15/2018, 6/12/2018 |

1.0 Background

Due to operator error, one of the tanks at the Angell Com #1 facility was not gauged correctly and overflowed on October 5, 2017. The battery was originally believed to be lined, but this was later found to be false. The impacted area was within the tank battery. The tank battery was dismantled and rebuilt on the east side of the location. The impacted area was excavated and backfilled after the battery was dismantled.

2.0 Site Ranking and Land Jurisdiction

The release site is located approximately 5.5 miles south of Lovington, with an elevation of approximately 3,830 feet above sea level. SMA searched the New Mexico State Engineer's Office (NMOSE) online water well database for water wells in the vicinity of the release. Several wells are located within a one-mile radius of the site. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be less than 50 feet below ground surface (bgs).

Recommended Remediation Action Levels (RRALs) are determined by the site ranking according to the NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (1993). Below in Table 2 are the remediation standards and the site ranking for this location. Justification for this site ranking is found in Figure 1 and Appendix B.

Table 2.

| Soil Remediation Standards | 0 to 9 | 10 to 19 | >19 |
|-----------------------------------|-----------------|-----------------|----------------|
| Benzene | 10 PPM | 10 PPM | 10 PPM |
| BTEX | 50 PPM | 50 PPM | 50 PPM |
| TPH | 5000 PPM | 1000 PPM | 100 PPM |

| Depth to Groundwater | NMOCD Numeric Rank |
|--|---------------------------|
| < 50 BGS = 20 | 20 |
| 50' to 99' = 10 | |
| >100' = 0 | |
| Distance to Nearest Surface Water | NMOCD Numeric Rank |
| < 200' = 20 | |
| 200' - 1000' = 10 | |
| >1000' = 0 | 0 |
| Well Head Protection | NMOCD Numeric Rank |
| <1000' (or <200' domestic) = 20 | |
| > 1000' = 0 | 0 |
| Total Site Ranking | 20 |

3.0 Release Characterization

On May 15, 2018, SMA field personnel assessed the spill and remedial actions performed before SMA's arrival. Five sample locations (S1-S5) were collected at 10 or 14 inches bgs across the footprint of the battery. One sample (S6) was collected from the pasture to the east of the former battery.

All samples were collected and processed according to NMOCD soil sampling procedures. The samples were sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for analysis for MRO, DRO, and GRO by EPA Method 8015D, BTEX by EPA Method 8021, and Chlorides by Method 300. Sample locations are depicted on Figure 2. All laboratory results are summarized in Table 3. Laboratory reports are included in Appendix C.

All samples results were non-detect for hydrocarbons. Sample S2, located at the southern end of the former tank battery, was slightly elevated in chlorides. Soil contaminant concentrations are illustrated in Figure 2.

4.0 Soil Remediation Summary

On June 12, 2018, SMA field personnel returned to the location to guide the excavation around sample point S2. Soil samples were field-screened for chloride using a mobile titration kit. The excavation in this area was extended to 10 feet by 6 feet by 3 feet deep bgs. Four sidewall samples were collected from this area (SW1-SW4). The samples were sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for the analyses mentioned above. Sampling results indicate that confirmation samples are within NMOCD recommended concentrations for chloride and NMOCD RRAL's. No further action is recommended at this time.

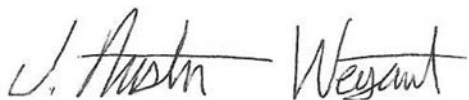
5.0 Scope and Limitations

The scope of our services consisted of the performance of assessment sampling, verification of release stabilization, regulatory liaison, and preparation of this closure report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Austin Weyant at 575-689-8801 or Shawna Chubbuck at 505-325-7535.

Submitted by:
SOUDER, MILLER & ASSOCIATES

Reviewed by:



Austin Weyant
Project Scientist



Shawna Chubbuck
Senior Scientist

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map

Figure 2: Site and Sample Location Map

Tables:

Table 3: Summary of Sample Results

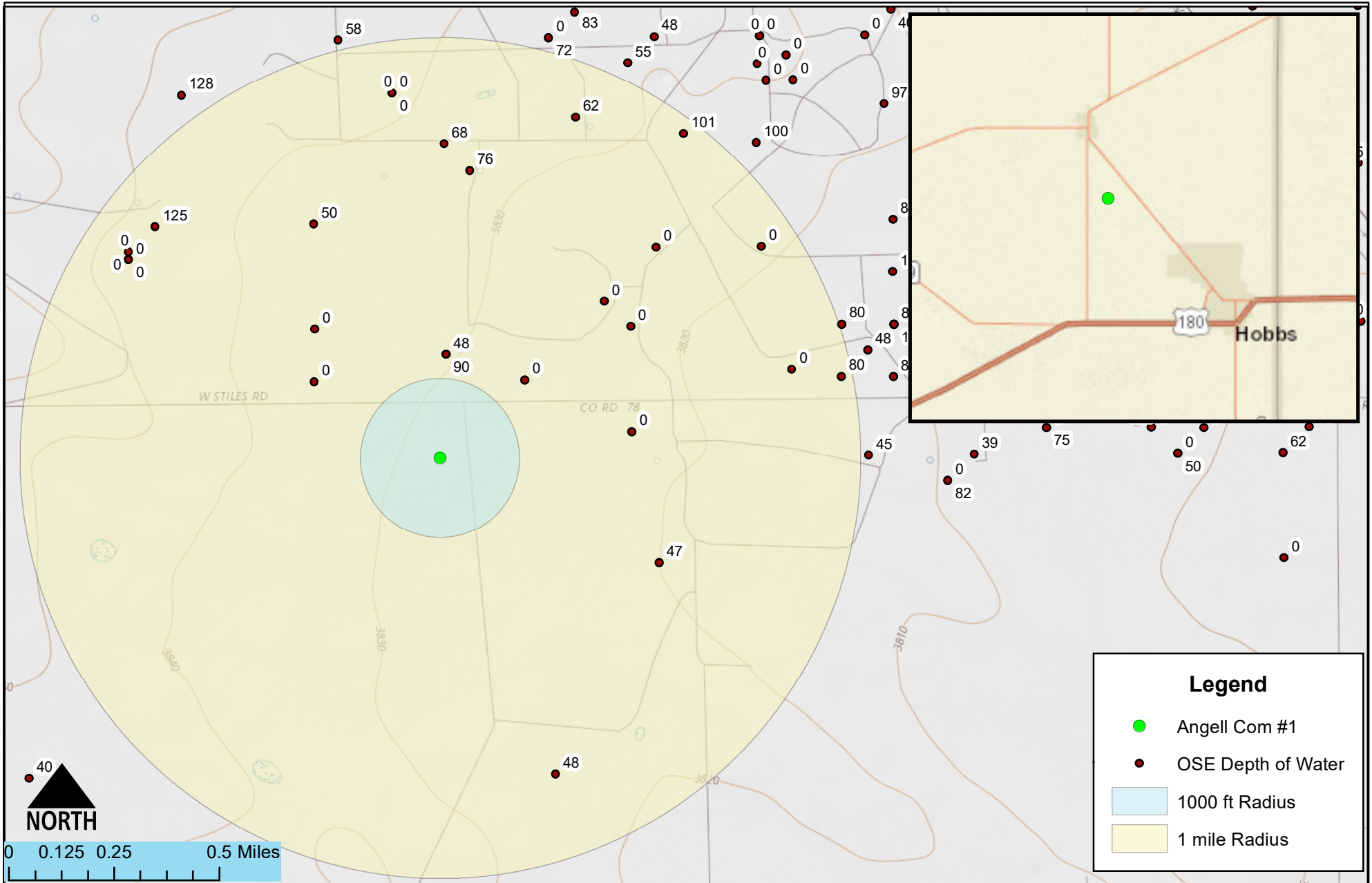
Appendices:

Appendix A: Form C141 Initial and Final

Appendix B: NMOSE Wells Report

Appendix C: Laboratory Analytical Reports

FIGURE 1
VICINITY AND NMOSE
DATA MAP



Vicinity and Well Head Protection Map
 Angell Com #1 - Marathon
 S 11-T17S-R36E, New Mexico

Figure 1

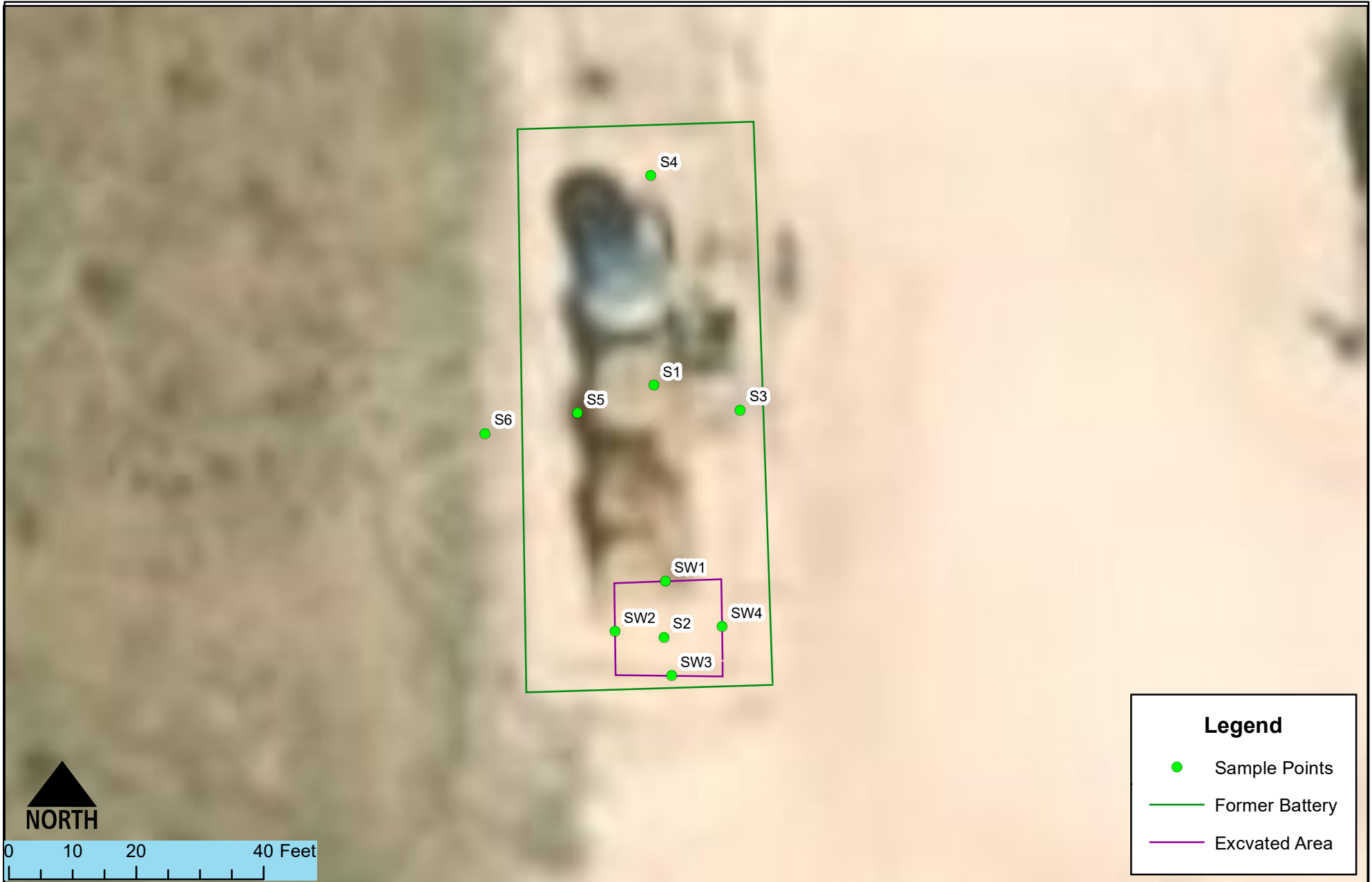
Date Saved: 5/23/2018
 By: _____ Date: _____
 By: _____ Date: _____
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Revisions
 Descr: _____
 Descr: _____
 Drawn **Heather Patterson**
 Checked _____
 Approved _____



201 South Halaguena Street
 Carlsbad, New Mexico 88221
 (575) 689-7040
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FIGURE 2
SITE AND SAMPLE
LOCATION MAP



Site and Sample Location Map
 Angell Com #1 - Marathon
 S 11-T17S-R36E, New Mexico

Figure 2

Date Saved: 7/17/2018
 By: _____ Date: _____
 Revisions Descr: _____
 By: _____ Date: _____
 Descr: _____
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Drawn Heather Patterson
 Checked _____
 Approved _____



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TABLE 3
SUMMARY SAMPLE RESULTS

Angell Com #1 Sample Summary

Table 3.

| Sample Number on Figure 2 | Sample Date | Depth (inches bgs) | Action | BTEX mg/Kg | Benzene mg/Kg | GRO mg/Kg | DRO mg/Kg | MRO mg/Kg | Total TPH mg/Kg | Cl- Field Screens (ppm) | Cl- Laboratory mg/Kg |
|----------------------------------|-------------|--------------------|-----------|------------|---------------|-----------|-----------|-----------|-----------------|-------------------------|----------------------|
| NMOCD RRAL's for Site Ranking 20 | | | | 50 mg/Kg | 10 mg/Kg | | | | 100 mg/Kg | | |
| S1 | 5/15/2018 | 14 | in-situ | <0.23 | <0.023 | <4.6 | <9.6 | <48 | <63 | -- | <30 |
| S2 | 5/15/2018 | 10 | excavated | <0.23 | <0.024 | <4.8 | <10 | <50 | <65 | -- | 960 |
| | 6/12/2018 | 12 | excavated | -- | -- | -- | -- | -- | -- | 811 | -- |
| | 6/12/2018 | 24 | excavated | -- | -- | -- | -- | -- | -- | 1109 | -- |
| | 6/12/2018 | 36 | in-situ | <0.23 | <0.024 | <4.7 | <9.7 | <47 | <62 | <271 | 190 |
| S3 | 5/15/2018 | 14 | in-situ | <0.23 | <0.023 | <4.7 | <9.7 | <49 | <64 | -- | <30 |
| S4 | 5/15/2018 | 14 | in-situ | <0.23 | <0.025 | <5.0 | <9.9 | <49 | <64 | -- | <30 |
| S5 | 5/15/2018 | 14 | in-situ | <0.23 | <0.023 | <4.6 | <9.2 | <46 | <62 | -- | <30 |
| S6 | 5/15/2018 | 10 | in-situ | <0.23 | <0.024 | <4.9 | <9.7 | <49 | <64 | -- | <30 |
| SW1 | 6/12/2018 | sidewall | in-situ | -- | -- | -- | -- | -- | -- | <271 | 200 |
| SW2 | 6/12/2018 | sidewall | in-situ | -- | -- | -- | -- | -- | -- | <271 | 130 |
| SW3 | 6/12/2018 | sidewall | in-situ | -- | -- | -- | -- | -- | -- | 428 | 290 |
| SW4 | 6/12/2018 | sidewall | in-situ | -- | -- | -- | -- | -- | -- | <271 | 300 |

"--" = Not Analyzed

APPENDIX A
FORM C141 INITIAL AND FINAL

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

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised April 3, 2017

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

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

Release Notification and Corrective Action

Initial only

OPERATOR

Initial Report Final Report

| | |
|--|--|
| Name of Company Marathon Oil Company | Contact Raquel Chacon |
| Address 5555 San Felipe Street, Houston, Texas 77056 | Telephone No. 281-910-0441(cell) 575-297-0988 (office) |
| Facility Name Angell COM #1 | Facility Type Oil and gas production facility |

| | | |
|------------------------|---------------|-----------------------------|
| Surface Owner: Private | Mineral Owner | API No. 30-025-37902 |
|------------------------|---------------|-----------------------------|

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| A | 11 | 17S | 36E | 660 | North | 660 | East | Lea |

Latitude 32.855019 Longitude -103.318259 NAD83

NATURE OF RELEASE

| | | |
|--|---|--|
| Type of Release: Oil | Volume of Release 11 barrels | Volume Recovered 11 barrels |
| Source of Release: Tank overflow | Date and Hour of Occurrence 10/5/2017 10:00 pm | Date and Hour of Discovery 10/5/2017 10:00 pm |
| Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? | |
| By Whom? Raquel Chacon | Date and Hour | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | |

REVISED

1:17 pm, May 07, 2018

RECEIVED

By Olivia Yu at 3:39 pm, Oct 23, 2017

If a Watercourse was Impacted, Describe Fully.*
Not applicable.

Describe Cause of Problem and Remedial Action Taken.*

Due to Operator Error, no automation on site, operator did not gauge location day before and approximately 11 bbls of oil were spilled and contained in a lined secondary containment. Vacuumed unit called out onsite and recovered 11 bbls.

Describe Area Affected and Cleanup Action Taken.*

Base material (chat) was removed from lined containment. Liner was checked for integrity and intact, new material was brought in to protect plastic liner.

not a lined facility

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.

OIL CONSERVATION DIVISION

Signature:

Approved by Environmental Specialist:



Printed Name: Raquel Chacon

Title: Sr. HES Environmental Professional

Approval Date: **10/23/2017** Expiration Date:

E-mail Address: rchacon@marathonoil.com

Conditions of Approval:

Attached

Date: October 9, 2017
Phone: 281-910-0441 (cell) 575-297-0988 (office)

see attached directive

* Attach Additional Sheets If Necessary

1RP-5046

nOY1729656856

pOY1812748024

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 10/19/2017 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 1RP-5046 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 1 office in Hobbs on or before 6/7/2018. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

APPENDIX B
NMOSE WELLS REPORT



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

| POD Number | POD Sub-Code | basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X | Y | Distance | Depth Well | Depth Water | Water Column |
|------------------------------|--------------|-------|--------|------|------|-----|-----|-----|-----|--------|----------|----------|------------|-------------|--------------|
| L 02413 | L | LE | | 4 | 4 | 02 | 17S | 36E | | 657318 | 3636861* | 393 | 90 | 90 | 0 |
| L 02426 | L | LE | | 4 | 4 | 02 | 17S | 36E | | 657318 | 3636861* | 393 | 115 | 48 | 67 |
| L 11198 | L | LE | | 3 | 3 | 3 | 01 | 17S | 36E | 657620 | 3636766* | 428 | 186 | | |
| L 00379 | L | LE | | 1 | 2 | 1 | 12 | 17S | 36E | 658031 | 3636570* | 725 | 110 | | |
| L 02119 | L | LE | | 1 | 4 | 3 | 01 | 17S | 36E | 658024 | 3636973* | 872 | 130 | | |
| L 06395 | L | LE | | 4 | 1 | 12 | 17S | 36E | | 658138 | 3636069* | 917 | 112 | 47 | 65 |
| L 01716 | L | LE | | 1 | 1 | 4 | 02 | 17S | 36E | 656808 | 3637357* | 1022 | 145 | 50 | 95 |
| L 02481 | L | LE | | 4 | 4 | 2 | 02 | 17S | 36E | 657405 | 3637566* | 1101 | 150 | 76 | 74 |
| L 03676 | L | LE | | 4 | 2 | 02 | 17S | 36E | | 657306 | 3637667* | 1199 | 75 | 68 | 7 |
| L 05413 | L | LE | | 3 | 3 | 12 | 17S | 36E | | 657747 | 3635257* | 1286 | 100 | 48 | 52 |
| L 05486 | L | LE | | 2 | 3 | 1 | 01 | 17S | 36E | 657808 | 3637773* | 1396 | 225 | 62 | 163 |
| L 14187 POD3 | L | LE | | 3 | 1 | 3 | 02 | 17S | 36E | 656141 | 3637232 | 1398 | 80 | | |
| L 14187 POD1 | L | LE | | 3 | 1 | 3 | 02 | 17S | 36E | 656130 | 3637225 | 1404 | 78 | | |
| L 01724 S3 | L | LE | | 2 | 1 | 3 | 02 | 17S | 36E | 656201 | 3637343* | 1414 | 140 | 125 | 15 |
| L 14187 POD2 | L | LE | | 3 | 1 | 3 | 02 | 17S | 36E | 656095 | 3637201 | 1421 | 77 | | |
| L 14187 POD4 | L | LE | | 3 | 1 | 3 | 02 | 17S | 36E | 656103 | 3637219 | 1423 | 80 | | |
| L 14263 POD7 | L | LE | | 3 | 4 | 4 | 01 | 17S | 36E | 658785 | 3636874 | 1527 | 124 | | |
| L 14207 POD2 | L | LE | | 2 | 4 | 1 | 01 | 17S | 36E | 658222 | 3637712 | 1541 | 230 | 101 | 129 |
| L 10633 POD6 | L | LE | | 3 | 4 | 4 | 01 | 17S | 36E | 658832 | 3636787* | 1552 | 196 | 80 | 116 |
| L 10633 POD4 | L | LE | | 1 | 4 | 4 | 01 | 17S | 36E | 658832 | 3636987* | 1605 | 209 | 80 | 129 |
| L 02205 | L | LE | | 2 | 2 | 12 | 17S | 36E | | 658939 | 3636485* | 1626 | 110 | 45 | 65 |
| L 02480 | L | LE | | 1 | 2 | 02 | 17S | 36E | | 656897 | 3638063* | 1648 | 130 | 58 | 72 |
| L 01713 | L | LE | | 1 | 1 | 01 | 17S | 36E | | 657703 | 3638076* | 1654 | 150 | 72 | 78 |
| L 04988 S | L | LE | | 3 | 2 | 1 | 01 | 17S | 36E | 658006 | 3637982* | 1665 | 182 | 55 | 127 |
| L 02331 | L | LE | | 4 | 4 | 01 | 17S | 36E | | 658933 | 3636888* | 1674 | 105 | 48 | 57 |
| L 14263 POD1 | L | LE | | 4 | 4 | 4 | 01 | 17S | 36E | 658944 | 3636867 | 1679 | 226 | | |

*UTM location was derived from PLSS - see Help

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

| POD Number | POD Sub-Code | basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X | Y | Distance | Depth Well | Depth Water | Water Column |
|-------------------------------|--------------|-------|--------|------|------|-----|-----|-----|-----|--------|----------|----------|------------|-------------|--------------|
| L 14263 POD2 | L | LE | | 4 | 4 | 4 | 01 | 17S | 36E | 658944 | 3636867 | 1679 | 223 | | |
| L 14263 POD4 | L | LE | | 4 | 4 | 4 | 01 | 17S | 36E | 658944 | 3636867 | 1679 | 235 | | |
| L 14263 POD6 | L | LE | | 4 | 4 | 4 | 01 | 17S | 36E | 658944 | 3636867 | 1679 | 124 | | |
| L 14207 POD1 | L | LE | | 3 | 3 | 2 | 01 | 17S | 36E | 658500 | 3637679 | 1696 | 240 | 100 | 140 |
| L 01724 S2 | L | LE | | | | 1 | 02 | 17S | 36E | 656298 | 3637848* | 1712 | 140 | 128 | 12 |
| L 10633 S3 | L | LE | | 4 | 4 | 4 | 01 | 17S | 36E | 659032 | 3636787* | 1749 | 188 | 80 | 108 |
| L 05486 POD2 | L | LE | | 2 | 1 | 1 | 01 | 17S | 36E | 657802 | 3638175* | 1775 | 232 | 83 | 149 |
| L 10633 POD5 | L | LE | | 2 | 4 | 4 | 01 | 17S | 36E | 659032 | 3636987* | 1796 | 228 | 120 | 108 |
| L 10633 S2 | R | L | LE | | | 4 | 13 | 17S | 36E | 659032 | 3636987* | 1796 | 196 | 80 | 116 |
| L 10633 S4 | L | LE | | 2 | 4 | 4 | 01 | 17S | 36E | 659032 | 3636987* | 1796 | 204 | 110 | 94 |
| L 01584 POD1 | L | LE | | | 2 | 1 | 01 | 17S | 36E | 658107 | 3638083* | 1800 | 110 | 48 | 62 |
| L 10633 S | R | L | LE | | | 4 | 13 | 17S | 36E | 659026 | 3637189* | 1859 | 228 | 120 | 108 |
| L 04359 S | L | LE | | 3 | 1 | 1 | 07 | 17S | 37E | 659242 | 3636391* | 1931 | 110 | 82 | 28 |
| L 11558 | L | LE | | 3 | 1 | 1 | 07 | 17S | 37E | 659242 | 3636391* | 1931 | 216 | | |
| L 10633 | R | L | LE | | | 4 | 13 | 17S | 36E | 659026 | 3637389* | 1945 | 209 | 80 | 129 |
| L 01557 POD1 | L | LE | | 4 | 3 | 3 | 36 | 16S | 36E | 657796 | 3638374* | 1966 | 110 | 40 | 70 |
| L 04058 S19 | L | LE | | 4 | 3 | 3 | 36 | 16S | 36E | 657796 | 3638374* | 1966 | 245 | 50 | 195 |
| L 05879 | L | LE | | | 4 | 4 | 10 | 17S | 36E | 655731 | 3635227* | 2010 | 120 | 40 | 80 |
| L 04988 | L | LE | | | 1 | 2 | 01 | 17S | 36E | 658510 | 3638089* | 2015 | 195 | 55 | 140 |
| L 01724 S | L | LE | | 3 | 4 | 2 | 03 | 17S | 36E | 655593 | 3637539* | 2025 | 135 | 85 | 50 |
| L 07042 | L | LE | | 3 | 4 | 2 | 03 | 17S | 36E | 655593 | 3637539* | 2025 | 100 | 60 | 40 |
| L 01603 POD1 | L | LE | | | 1 | 1 | 07 | 17S | 37E | 659343 | 3636492* | 2030 | 120 | 39 | 81 |
| L 01466 | L | LE | | | 3 | 4 | 35 | 16S | 36E | 656891 | 3638461* | 2037 | 110 | 47 | 63 |
| L 02987 | L | LE | | | 3 | 4 | 35 | 16S | 36E | 656891 | 3638461* | 2037 | 105 | 40 | 65 |
| L 12562 POD11 | L | LE | | 2 | 4 | 2 | 01 | 17S | 36E | 658989 | 3637831 | 2161 | 112 | 97 | 15 |
| L 02474 | L | LE | | | 1 | 3 | 06 | 17S | 37E | 659331 | 3637296* | 2182 | 100 | 40 | 60 |
| L 12562 POD4 | L | LE | | 4 | 4 | 2 | 36 | 16S | 36E | 658584 | 3638296 | 2227 | 121 | 106 | 15 |
| L 01724 | L | LE | | | | 2 | 03 | 17S | 36E | 655492 | 3637835* | 2276 | 146 | 80 | 66 |
| L 04359 | L | LE | | 1 | 2 | 1 | 07 | 17S | 37E | 659619 | 3636595* | 2310 | 111 | 75 | 36 |

*UTM location was derived from PLSS - see Help

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

| POD Number | POD Sub-Code | basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X | Y | Distance | Depth Well | Depth Water | Water Column |
|------------------------------|--------------|-------|--------|------|------|-----|-----|-----|-----|--------|----------|----------|------------|-------------|--------------|
| L 04359 | R | L | LE | 1 | 2 | 1 | 07 | 17S | 37E | 659619 | 3636595* | 2310 | 111 | 75 | 36 |
| L 04359 POD4 | | L | LE | 1 | 2 | 1 | 07 | 17S | 37E | 659619 | 3636595* | 2310 | 222 | | |
| L 01371 | | L | LE | 4 | 3 | 4 | 36 | 16S | 36E | 658603 | 3638389* | 2314 | 115 | 45 | 70 |
| L 01438 | | L | LE | | 3 | 4 | 36 | 16S | 36E | 658504 | 3638490* | 2347 | 110 | 45 | 65 |
| L 03882 | | L | LE | | 3 | 1 | 14 | 17S | 36E | 656147 | 3634430* | 2347 | 120 | 57 | 63 |
| L 02508 | | L | LE | 2 | 2 | 2 | 01 | 17S | 36E | 659013 | 3638194* | 2423 | 120 | 40 | 80 |
| L 05161 | | L | LE | | 2 | 4 | 14 | 17S | 36E | 657363 | 3634043* | 2425 | 105 | 36 | 69 |
| L 04058 S22 | | L | LE | | 1 | 3 | 36 | 16S | 36E | 657691 | 3638878* | 2439 | 239 | 68 | 171 |
| L 00380 | | L | LE | 1 | 4 | 1 | 10 | 17S | 36E | 654811 | 3636117 | 2525 | 90 | | |
| L 00380 | R | L | LE | 1 | 4 | 1 | 10 | 17S | 36E | 654811 | 3636117 | 2525 | 90 | | |
| L 09666 | | L | LE | | 2 | 3 | 13 | 17S | 36E | 658170 | 3634055* | 2560 | 150 | | |
| L 02561 | | L | LE | 3 | 3 | 3 | 31 | 16S | 37E | 659210 | 3638403* | 2710 | 137 | 50 | 87 |
| L 01963 | | L | LE | 1 | 1 | 2 | 07 | 17S | 37E | 660021 | 3636599* | 2711 | 150 | 132 | 18 |
| L 04058 S31 | | L | LE | 4 | 3 | 2 | 35 | 16S | 36E | 656978 | 3639166* | 2718 | 230 | 100 | 130 |
| L 12821 POD4 | | L | | | | | | | | 656899 | 3639157 | 2721 | 20 | | |
| L 04058 S18 | | L | LE | 4 | 3 | 1 | 36 | 16S | 36E | 657783 | 3639180* | 2752 | 265 | 50 | 215 |
| L 14263 POD3 | | L | LE | 4 | 4 | 4 | 01 | 17S | 36E | 658914 | 3638715 | 2760 | 225 | | |
| L 03173 | | L | LE | | 4 | 2 | 35 | 16S | 36E | 657282 | 3639274* | 2806 | 110 | 55 | 55 |
| L 01963 S | | L | LE | | 1 | 2 | 07 | 17S | 37E | 660122 | 3636500* | 2809 | 128 | 50 | 78 |
| L 02984 | | L | LE | | 1 | 1 | 10 | 17S | 36E | 654502 | 3636414* | 2810 | 125 | 45 | 80 |
| L 02199 | | L | LE | | 4 | 4 | 14 | 17S | 36E | 657369 | 3633640* | 2828 | 110 | 45 | 65 |
| L 13332 POD1 | | L | LE | 1 | 3 | 3 | 36 | 16S | 37E | 659161 | 3638638 | 2851 | 106 | 102 | 4 |
| L 01220 POD1 | | L | LE | | 3 | 3 | 31 | 16S | 37E | 659311 | 3638504* | 2853 | 120 | 55 | 65 |
| L 00449 | | L | LE | 1 | 1 | 4 | 06 | 17S | 37E | 660008 | 3637404* | 2853 | 100 | 70 | 30 |
| L 00449 POD5 | | L | LE | 1 | 1 | 4 | 06 | 17S | 37E | 660008 | 3637404* | 2853 | 247 | 101 | 146 |
| L 00449 POD5 | R | L | LE | 1 | 1 | 4 | 06 | 17S | 37E | 660008 | 3637404* | 2853 | 247 | 101 | 146 |
| L 01350 | | L | LE | | 2 | 4 | 36 | 16S | 36E | 658901 | 3638899* | 2904 | 110 | 55 | 55 |
| L 12823 POD1 | | L | LE | 2 | 1 | 2 | 07 | 17S | 37E | 660221 | 3636599 | 2911 | 200 | | |
| L 04058 S25 | | L | LE | 2 | 3 | 1 | 36 | 16S | 36E | 657783 | 3639380* | 2949 | 256 | 88 | 168 |

*UTM location was derived from PLSS - see Help

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

| POD Number | POD Sub-Code | basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X | Y | Distance | Depth Well | Depth Water | Water Column |
|-------------------------------|--------------|-------|--------|------|------|-----|-----|-----|--------|---------|---------|----------|------------|-------------|--------------|
| L 12562 POD12 | L | LE | | 3 | 1 | 3 | 31 | 16S | 37E | 659166 | 3638783 | 2966 | 109 | 94 | 15 |
| L 12562 POD10 | L | LE | | 2 | 2 | 4 | 36 | 16S | 36E | 659032 | 3638913 | 2989 | 113 | 98 | 15 |
| L 14377 POD3 | L | LE | | 2 | 3 | 3 | 31 | 16S | 37E | 659423 | 3638586 | 2990 | 115 | | |
| L 13332 POD2 | L | LE | | 4 | 3 | 2 | 36 | 16S | 36E | 658677 | 3639129 | 2991 | 120 | 104 | 16 |
| L 12562 POD1 | L | LE | | 2 | 2 | 4 | 36 | 16S | 36E | 658908 | 3639001 | 2993 | 120 | 105 | 15 |
| L 12562 POD14 | L | LE | | 2 | 2 | 36 | 16S | 36E | 658677 | 3639136 | 2996 | 116 | 101 | 15 | |

Average Depth to Water: **72 feet**

Minimum Depth: **36 feet**

Maximum Depth: **132 feet**

Record Count: 90

UTMNAD83 Radius Search (in meters):

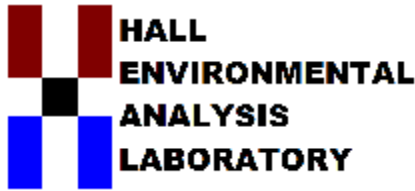
Easting (X): 657312.21

Northing (Y): 3636467.96

Radius: 3000

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

APPENDIX C
LABORATORY ANALYTICAL
REPORTS



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

May 25, 2018

Heather Patterson
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040
FAX

RE: Angel 1

OrderNo.: 1805986

Dear Heather Patterson:

Hall Environmental Analysis Laboratory received 6 sample(s) on 5/17/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1805986

Date Reported: 5/25/2018

CLIENT: Souder, Miller & Associates

Client Sample ID: S1-14"

Project: Angel 1

Collection Date: 5/15/2018 12:05:00 PM

Lab ID: 1805986-001

Matrix: SOIL

Received Date: 5/17/2018 9:25:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | ND | 30 | | mg/Kg | 20 | 5/22/2018 2:53:51 PM | 38253 |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | | Analyst: AG |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 5/18/2018 5:08:36 PM | 38177 |
| Surr: BFB | 121 | 70-130 | | %Rec | 1 | 5/18/2018 5:08:36 PM | 38177 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 9.6 | | mg/Kg | 1 | 5/22/2018 2:26:45 AM | 38208 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 5/22/2018 2:26:45 AM | 38208 |
| Surr: DNOP | 99.7 | 70-130 | | %Rec | 1 | 5/22/2018 2:26:45 AM | 38208 |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | | Analyst: AG |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 5/18/2018 5:08:36 PM | 38177 |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 5/18/2018 5:08:36 PM | 38177 |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 5/18/2018 5:08:36 PM | 38177 |
| Xylenes, Total | ND | 0.092 | | mg/Kg | 1 | 5/18/2018 5:08:36 PM | 38177 |
| Surr: 4-Bromofluorobenzene | 132 | 70-130 | S | %Rec | 1 | 5/18/2018 5:08:36 PM | 38177 |
| Surr: Toluene-d8 | 93.2 | 70-130 | | %Rec | 1 | 5/18/2018 5:08:36 PM | 38177 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1805986

Date Reported: 5/25/2018

CLIENT: Souder, Miller & Associates

Client Sample ID: S2-10"

Project: Angel 1

Collection Date: 5/15/2018 12:26:00 PM

Lab ID: 1805986-002

Matrix: SOIL

Received Date: 5/17/2018 9:25:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 960 | 30 | | mg/Kg | 20 | 5/22/2018 3:06:17 PM | 38253 |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | | Analyst: AG |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 5/18/2018 5:31:41 PM | 38177 |
| Surr: BFB | 120 | 70-130 | | %Rec | 1 | 5/18/2018 5:31:41 PM | 38177 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 5/22/2018 2:50:45 AM | 38208 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 5/22/2018 2:50:45 AM | 38208 |
| Surr: DNOP | 90.5 | 70-130 | | %Rec | 1 | 5/22/2018 2:50:45 AM | 38208 |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | | Analyst: AG |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 5/18/2018 5:31:41 PM | 38177 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 5/18/2018 5:31:41 PM | 38177 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 5/18/2018 5:31:41 PM | 38177 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 5/18/2018 5:31:41 PM | 38177 |
| Surr: 4-Bromofluorobenzene | 131 | 70-130 | S | %Rec | 1 | 5/18/2018 5:31:41 PM | 38177 |
| Surr: Toluene-d8 | 93.2 | 70-130 | | %Rec | 1 | 5/18/2018 5:31:41 PM | 38177 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1805986

Date Reported: 5/25/2018

CLIENT: Souder, Miller & Associates

Client Sample ID: S3-14"

Project: Angel 1

Collection Date: 5/15/2018 12:36:00 PM

Lab ID: 1805986-003

Matrix: SOIL

Received Date: 5/17/2018 9:25:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | ND | 30 | | mg/Kg | 20 | 5/22/2018 3:43:30 PM | 38253 |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | | Analyst: AG |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 5/18/2018 5:54:46 PM | 38177 |
| Surr: BFB | 118 | 70-130 | | %Rec | 1 | 5/18/2018 5:54:46 PM | 38177 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 9.7 | | mg/Kg | 1 | 5/22/2018 3:14:49 AM | 38208 |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 5/22/2018 3:14:49 AM | 38208 |
| Surr: DNOP | 97.2 | 70-130 | | %Rec | 1 | 5/22/2018 3:14:49 AM | 38208 |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | | Analyst: AG |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 5/18/2018 5:54:46 PM | 38177 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 5/18/2018 5:54:46 PM | 38177 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 5/18/2018 5:54:46 PM | 38177 |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 5/18/2018 5:54:46 PM | 38177 |
| Surr: 4-Bromofluorobenzene | 128 | 70-130 | | %Rec | 1 | 5/18/2018 5:54:46 PM | 38177 |
| Surr: Toluene-d8 | 91.1 | 70-130 | | %Rec | 1 | 5/18/2018 5:54:46 PM | 38177 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1805986

Date Reported: 5/25/2018

CLIENT: Souder, Miller & Associates

Client Sample ID: S4-14"

Project: Angel 1

Collection Date: 5/15/2018 12:49:00 PM

Lab ID: 1805986-004

Matrix: SOIL

Received Date: 5/17/2018 9:25:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | ND | 30 | | mg/Kg | 20 | 5/22/2018 3:55:55 PM | 38253 |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | | Analyst: AG |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 5/18/2018 6:17:55 PM | 38177 |
| Surr: BFB | 116 | 70-130 | | %Rec | 1 | 5/18/2018 6:17:55 PM | 38177 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 5/22/2018 3:38:48 AM | 38208 |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 5/22/2018 3:38:48 AM | 38208 |
| Surr: DNOP | 94.2 | 70-130 | | %Rec | 1 | 5/22/2018 3:38:48 AM | 38208 |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | | Analyst: AG |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 5/18/2018 6:17:55 PM | 38177 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 5/18/2018 6:17:55 PM | 38177 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 5/18/2018 6:17:55 PM | 38177 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 5/18/2018 6:17:55 PM | 38177 |
| Surr: 4-Bromofluorobenzene | 127 | 70-130 | | %Rec | 1 | 5/18/2018 6:17:55 PM | 38177 |
| Surr: Toluene-d8 | 92.2 | 70-130 | | %Rec | 1 | 5/18/2018 6:17:55 PM | 38177 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1805986

Date Reported: 5/25/2018

CLIENT: Souder, Miller & Associates

Client Sample ID: S5-14"

Project: Angel 1

Collection Date: 5/15/2018 1:10:00 PM

Lab ID: 1805986-005

Matrix: SOIL

Received Date: 5/17/2018 9:25:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | ND | 30 | | mg/Kg | 20 | 5/22/2018 4:08:19 PM | 38253 |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | | Analyst: AG |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 5/18/2018 6:41:06 PM | 38177 |
| Surr: BFB | 120 | 70-130 | | %Rec | 1 | 5/18/2018 6:41:06 PM | 38177 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 9.2 | | mg/Kg | 1 | 5/22/2018 4:02:51 AM | 38208 |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 5/22/2018 4:02:51 AM | 38208 |
| Surr: DNOP | 95.8 | 70-130 | | %Rec | 1 | 5/22/2018 4:02:51 AM | 38208 |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | | Analyst: AG |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 5/18/2018 6:41:06 PM | 38177 |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 5/18/2018 6:41:06 PM | 38177 |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 5/18/2018 6:41:06 PM | 38177 |
| Xylenes, Total | ND | 0.093 | | mg/Kg | 1 | 5/18/2018 6:41:06 PM | 38177 |
| Surr: 4-Bromofluorobenzene | 130 | 70-130 | S | %Rec | 1 | 5/18/2018 6:41:06 PM | 38177 |
| Surr: Toluene-d8 | 91.8 | 70-130 | | %Rec | 1 | 5/18/2018 6:41:06 PM | 38177 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1805986

Date Reported: 5/25/2018

CLIENT: Souder, Miller & Associates

Client Sample ID: S6-10"

Project: Angel 1

Collection Date: 5/15/2018 1:24:00 PM

Lab ID: 1805986-006

Matrix: SOIL

Received Date: 5/17/2018 9:25:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | ND | 30 | | mg/Kg | 20 | 5/22/2018 4:20:44 PM | 38253 |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | | Analyst: AG |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 5/18/2018 7:04:16 PM | 38177 |
| Surr: BFB | 120 | 70-130 | | %Rec | 1 | 5/18/2018 7:04:16 PM | 38177 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 9.7 | | mg/Kg | 1 | 5/22/2018 4:26:56 AM | 38208 |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 5/22/2018 4:26:56 AM | 38208 |
| Surr: DNOP | 93.6 | 70-130 | | %Rec | 1 | 5/22/2018 4:26:56 AM | 38208 |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | | Analyst: AG |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 5/18/2018 7:04:16 PM | 38177 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 5/18/2018 7:04:16 PM | 38177 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 5/18/2018 7:04:16 PM | 38177 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 5/18/2018 7:04:16 PM | 38177 |
| Surr: 4-Bromofluorobenzene | 131 | 70-130 | S | %Rec | 1 | 5/18/2018 7:04:16 PM | 38177 |
| Surr: Toluene-d8 | 92.6 | 70-130 | | %Rec | 1 | 5/18/2018 7:04:16 PM | 38177 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1805986

25-May-18

Client: Souder, Miller & Associates

Project: Angel 1

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|---------------------------------|----------|--------------|------|----------|------|
| Sample ID | MB-38253 | SampType: | mblk | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | PBS | Batch ID: | 38253 | RunNo: | 51434 | | | | | |
| Prep Date: | 5/22/2018 | Analysis Date: | 5/22/2018 | SeqNo: | 1676144 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|---------------------------------|----------|--------------|------|----------|------|
| Sample ID | LCS-38253 | SampType: | lcs | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | LCSS | Batch ID: | 38253 | RunNo: | 51434 | | | | | |
| Prep Date: | 5/22/2018 | Analysis Date: | 5/22/2018 | SeqNo: | 1676145 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 94.9 | 90 | 110 | | | |

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1805986

25-May-18

Client: Souder, Miller & Associates

Project: Angel 1

| Sample ID LCS-38208 | SampType: LCS | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|-----------------------------|---------------------------------|-----|--|-------------|------|----------|---------------------|------|----------|------|
| Client ID: LCSS | Batch ID: 38208 | | RunNo: 51394 | | | | | | | |
| Prep Date: 5/18/2018 | Analysis Date: 5/22/2018 | | SeqNo: 1673851 | | | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 49 | 10 | 50.00 | 0 | 98.9 | 70 | 130 | | | |
| Surr: DNOP | 4.7 | | 5.000 | | 93.9 | 70 | 130 | | | |

| Sample ID MB-38208 | SampType: MBLK | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|--------------------------------|---------------------------------|-----|--|-------------|------|----------|---------------------|------|----------|------|
| Client ID: PBS | Batch ID: 38208 | | RunNo: 51394 | | | | | | | |
| Prep Date: 5/18/2018 | Analysis Date: 5/21/2018 | | SeqNo: 1673852 | | | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 9.9 | | 10.00 | | 98.6 | 70 | 130 | | | |

| Sample ID LCS-38269 | SampType: LCS | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|-----------------------------|---------------------------------|-----|--|-------------|------|----------|--------------------|------|----------|------|
| Client ID: LCSS | Batch ID: 38269 | | RunNo: 51394 | | | | | | | |
| Prep Date: 5/22/2018 | Analysis Date: 5/23/2018 | | SeqNo: 1676949 | | | | Units: %Rec | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 5.3 | | 5.000 | | 105 | 70 | 130 | | | |

| Sample ID MB-38269 | SampType: MBLK | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|-----------------------------|---------------------------------|-----|--|-------------|------|----------|--------------------|------|----------|------|
| Client ID: PBS | Batch ID: 38269 | | RunNo: 51394 | | | | | | | |
| Prep Date: 5/22/2018 | Analysis Date: 5/23/2018 | | SeqNo: 1676950 | | | | Units: %Rec | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 12 | | 10.00 | | 116 | 70 | 130 | | | |

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1805986

25-May-18

Client: Souder, Miller & Associates

Project: Angel 1

| Sample ID | Ics-38177 | SampType: | LCS4 | TestCode: | EPA Method 8260B: Volatiles Short List | | | | | |
|----------------------------|------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Client ID: | BatchQC | Batch ID: | 38177 | RunNo: | 51378 | | | | | |
| Prep Date: | 5/17/2018 | Analysis Date: | 5/18/2018 | SeqNo: | 1671710 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.84 | 0.025 | 1.000 | 0 | 83.9 | 80 | 120 | | | |
| Toluene | 0.98 | 0.050 | 1.000 | 0 | 97.7 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 104 | 80 | 120 | | | |
| Xylenes, Total | 3.1 | 0.10 | 3.000 | 0 | 102 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.48 | | 0.5000 | | 96.5 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.50 | | 0.5000 | | 100 | 70 | 130 | | | |

| Sample ID | mb-38177 | SampType: | MBLK | TestCode: | EPA Method 8260B: Volatiles Short List | | | | | |
|----------------------------|------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 38177 | RunNo: | 51378 | | | | | |
| Prep Date: | 5/17/2018 | Analysis Date: | 5/18/2018 | SeqNo: | 1671711 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.65 | | 0.5000 | | 130 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.48 | | 0.5000 | | 96.0 | 70 | 130 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1805986

25-May-18

Client: Souder, Miller & Associates

Project: Angel 1

| | | | | | | | | | | |
|-------------------------------|------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | ics-38177 | SampType: | LCS | TestCode: | EPA Method 8015D Mod: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | 38177 | RunNo: | 51378 | | | | | |
| Prep Date: | 5/17/2018 | Analysis Date: | 5/18/2018 | SeqNo: | 1671707 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 22 | 5.0 | 25.00 | 0 | 89.9 | 70 | 130 | | | |
| Surr: BFB | 510 | | 500.0 | | 102 | 70 | 130 | | | |

| | | | | | | | | | | |
|-------------------------------|------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | mb-38177 | SampType: | MBLK | TestCode: | EPA Method 8015D Mod: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | 38177 | RunNo: | 51378 | | | | | |
| Prep Date: | 5/17/2018 | Analysis Date: | 5/18/2018 | SeqNo: | 1672698 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 590 | | 500.0 | | 119 | 70 | 130 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Sample Log-In Check List

Client Name: SMA-CARLSBAD

Work Order Number: 1805986

RcptNo: 1

Received By: **Isaiah Ortiz**

5/17/2018 9:25:00 AM

IO

Completed By: **Ashley Gallegos**

5/17/2018 11:36:50 AM

AG

Reviewed By: *Lehr*

5/17/18

Labeled by:

JB 05/17/18

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes No NA
4. Were all samples received at a temperature of >0° C to 5.0°C Yes No NA
5. Sample(s) in proper container(s)? Yes No
6. Sufficient sample volume for indicated test(s)? Yes No
7. Are samples (except VOA and ONG) properly preserved? Yes No
8. Was preservative added to bottles? Yes No NA
9. VOA vials have zero headspace? Yes No No VOA Vials
10. Were any sample containers received broken? Yes No
11. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Is it clear what analyses were requested? Yes No
14. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

05/17/18
 # of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? *JB*
 Checked by: _____

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

16. Additional remarks:

Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1 | 1.2 | Good | Yes | | | |

Chain-of-Custody Record

Client: S M A

Mailing Address: 201 S. Malagueno
 Carlsbad, NM 88221

Phone #: (575) 689-7040

email or Fax#: ~~h.patterson~~ ^{h.patterson} ~~for~~ ^{header.patterson} ~~@southernmiller.com~~

QA/QC Package: Standard Level 4 (Full Validation)

Accreditation: NELAP Other

EDD (Type)

Turn-Around Time: 5 days

Standard Rush

Project Name: Angeli #1

Project #: _____

Project Manager: H. Patterson

Sampler: SH

On Ice: Yes No

Sample Temperature: 6.2

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. |
|---------|-------|--------|-------------------|----------------------|-------------------|----------|
| 5-15-18 | 12:05 | soil | S1-14" | 1-402 | | 1805986 |
| | 12:20 | | S2-10" | | | -001 |
| | 12:30 | | S3-14" | | | -002 |
| | 12:49 | | S4-14" | | | -003 |
| | 13:10 | | S5-14 | | | -004 |
| | 13:24 | | S6-10" | | | -005 |
| | | | | | | -006 |

Date: 5/18/18 Time: 0900 Relinquished by: [Signature]

Date: 5/16/18 Time: 1900 Relinquished by: [Signature]

Received by: [Signature] Date: 5/16/18 Time: 0900

Received by: [Signature] Date: 5/17/18 Time: 0925



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

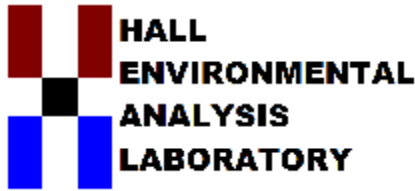
4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

| Analysis Request | |
|--|--|
| <input checked="" type="checkbox"/> BTX + MTBE + TMBs (8021) | |
| <input checked="" type="checkbox"/> BTX + MTBE + TPH (Gas only) | |
| <input checked="" type="checkbox"/> TPH 8015B (GRO / DRO / MRO) | |
| TPH (Method 418.1) | |
| EDB (Method 504.1) | |
| PAH's (8310 or 8270 SIMS) | |
| RCRA 8 Metals ^{300.0} | |
| Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄) | |
| 8081 Pesticides / 8082 PCBs | |
| 8260B (VOA) | |
| 8270 (Semi-VOA) | |
| Air Bubbles (Y or N) | |

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

July 05, 2018

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040
FAX

RE: Angell 1

OrderNo.: 1806A21

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 5 sample(s) on 6/15/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1806A21

Date Reported: 7/5/2018

CLIENT: Souder, Miller & Associates

Client Sample ID: S2-3

Project: Angell 1

Collection Date: 6/12/2018 10:28:00 AM

Lab ID: 1806A21-001

Matrix: SOIL

Received Date: 6/15/2018 9:00:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 190 | 30 | | mg/Kg | 20 | 6/27/2018 5:20:12 PM | 38916 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 9.4 | | mg/Kg | 1 | 6/20/2018 7:19:32 PM | 38767 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 6/20/2018 7:19:32 PM | 38767 |
| Surr: DNOP | 132 | 70-130 | S | %Rec | 1 | 6/20/2018 7:19:32 PM | 38767 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 6/19/2018 9:21:19 PM | 38742 |
| Surr: BFB | 74.4 | 15-316 | | %Rec | 1 | 6/19/2018 9:21:19 PM | 38742 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Methyl tert-butyl ether (MTBE) | ND | 0.094 | | mg/Kg | 1 | 6/19/2018 9:21:19 PM | 38742 |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 6/19/2018 9:21:19 PM | 38742 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 6/19/2018 9:21:19 PM | 38742 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 6/19/2018 9:21:19 PM | 38742 |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 6/19/2018 9:21:19 PM | 38742 |
| Surr: 4-Bromofluorobenzene | 96.1 | 80-120 | | %Rec | 1 | 6/19/2018 9:21:19 PM | 38742 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1806A21**

Date Reported: 7/5/2018

CLIENT: Souder, Miller & Associates

Client Sample ID: SW1

Project: Angell 1

Collection Date: 6/12/2018 10:50:00 AM

Lab ID: 1806A21-002

Matrix: SOIL

Received Date: 6/15/2018 9:00:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---------------------------------|--------|-----|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 200 | 30 | | mg/Kg | 20 | 6/29/2018 1:44:32 PM | 38971 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1806A21

Date Reported: 7/5/2018

CLIENT: Souder, Miller & Associates

Client Sample ID: SW2

Project: Angell 1

Collection Date: 6/12/2018 10:35:00 AM

Lab ID: 1806A21-003

Matrix: SOIL

Received Date: 6/15/2018 9:00:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---------------------------------|--------|-----|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 130 | 30 | | mg/Kg | 20 | 6/29/2018 1:56:56 PM | 38971 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1806A21

Date Reported: 7/5/2018

CLIENT: Souder, Miller & Associates

Client Sample ID: SW3

Project: Angell 1

Collection Date: 6/12/2018 10:42:00 AM

Lab ID: 1806A21-004

Matrix: SOIL

Received Date: 6/15/2018 9:00:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---------------------------------|--------|-----|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 290 | 30 | | mg/Kg | 20 | 6/29/2018 2:09:20 PM | 38971 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1806A21

Date Reported: 7/5/2018

CLIENT: Souder, Miller & Associates

Client Sample ID: SW4

Project: Angell 1

Collection Date: 6/12/2018 10:58:00 AM

Lab ID: 1806A21-005

Matrix: SOIL

Received Date: 6/15/2018 9:00:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---------------------------------|--------|-----|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 300 | 30 | | mg/Kg | 20 | 6/29/2018 2:46:34 PM | 38971 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1806A21

05-Jul-18

Client: Souder, Miller & Associates

Project: Angell 1

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|---------------------------------|----------|--------------|------|----------|------|
| Sample ID | MB-38916 | SampType: | MBLK | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | PBS | Batch ID: | 38916 | RunNo: | 52281 | | | | | |
| Prep Date: | 6/27/2018 | Analysis Date: | 6/27/2018 | SeqNo: | 1714260 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|---------------------------------|----------|--------------|------|----------|------|
| Sample ID | LCS-38916 | SampType: | LCS | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | LCSS | Batch ID: | 38916 | RunNo: | 52281 | | | | | |
| Prep Date: | 6/27/2018 | Analysis Date: | 6/27/2018 | SeqNo: | 1714261 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 96.0 | 90 | 110 | | | |

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|---------------------------------|----------|--------------|------|----------|------|
| Sample ID | MB-38971 | SampType: | mblk | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | PBS | Batch ID: | 38971 | RunNo: | 52369 | | | | | |
| Prep Date: | 6/29/2018 | Analysis Date: | 6/29/2018 | SeqNo: | 1717233 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|---------------------------------|----------|--------------|------|----------|------|
| Sample ID | LCS-38971 | SampType: | lcs | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | LCSS | Batch ID: | 38971 | RunNo: | 52369 | | | | | |
| Prep Date: | 6/29/2018 | Analysis Date: | 6/29/2018 | SeqNo: | 1717234 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 15 | 1.5 | 15.00 | 0 | 97.2 | 90 | 110 | | | |

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1806A21

05-Jul-18

Client: Souder, Miller & Associates

Project: Angell 1

| Sample ID LCS-38767 | SampType: LCS | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|-----------------------------|---------------------------------|-----|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 38767 | | RunNo: 52095 | | | | | | | |
| Prep Date: 6/19/2018 | Analysis Date: 6/20/2018 | | SeqNo: 1705232 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 48 | 10 | 50.00 | 0 | 95.7 | 70 | 130 | | | |
| Surr: DNOP | 4.8 | | 5.000 | | 95.2 | 70 | 130 | | | |

| Sample ID MB-38767 | SampType: MBLK | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|--------------------------------|---------------------------------|-----|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 38767 | | RunNo: 52095 | | | | | | | |
| Prep Date: 6/19/2018 | Analysis Date: 6/20/2018 | | SeqNo: 1705233 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 9.8 | | 10.00 | | 98.0 | 70 | 130 | | | |

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1806A21

05-Jul-18

Client: Souder, Miller & Associates

Project: Angell 1

| Sample ID MB-38742 | SampType: MBLK | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|---------------------------------|-----|---|-------------|------|----------|---------------------|------|----------|------|
| Client ID: PBS | Batch ID: 38742 | | RunNo: 52090 | | | | | | | |
| Prep Date: 6/18/2018 | Analysis Date: 6/19/2018 | | SeqNo: 1704624 | | | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 740 | | 1000 | | 74.2 | 15 | 316 | | | |

| Sample ID LCS-38742 | SampType: LCS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|---------------------------------|-----|---|-------------|------|----------|---------------------|------|----------|------|
| Client ID: LCSS | Batch ID: 38742 | | RunNo: 52090 | | | | | | | |
| Prep Date: 6/18/2018 | Analysis Date: 6/19/2018 | | SeqNo: 1704625 | | | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 25 | 5.0 | 25.00 | 0 | 100 | 75.9 | 131 | | | |
| Surr: BFB | 880 | | 1000 | | 87.7 | 15 | 316 | | | |

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1806A21

05-Jul-18

Client: Souder, Miller & Associates

Project: Angell 1

| Sample ID MB-38742 | SampType: MBLK | | TestCode: EPA Method 8021B: Volatiles | | | | | | | |
|--------------------------------|---------------------------------|-------|--|-------------|------|----------|---------------------|------|----------|------|
| Client ID: PBS | Batch ID: 38742 | | RunNo: 52090 | | | | | | | |
| Prep Date: 6/18/2018 | Analysis Date: 6/19/2018 | | SeqNo: 1704672 | | | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Methyl tert-butyl ether (MTBE) | ND | 0.10 | | | | | | | | |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.95 | | 1.000 | | 95.0 | 80 | 120 | | | |

| Sample ID LCS-38742 | SampType: LCS | | TestCode: EPA Method 8021B: Volatiles | | | | | | | |
|--------------------------------|---------------------------------|-------|--|-------------|------|----------|---------------------|------|----------|------|
| Client ID: LCSS | Batch ID: 38742 | | RunNo: 52090 | | | | | | | |
| Prep Date: 6/18/2018 | Analysis Date: 6/19/2018 | | SeqNo: 1704674 | | | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Methyl tert-butyl ether (MTBE) | 0.91 | 0.10 | 1.000 | 0 | 90.6 | 70.1 | 121 | | | |
| Benzene | 0.95 | 0.025 | 1.000 | 0 | 94.7 | 77.3 | 128 | | | |
| Toluene | 0.97 | 0.050 | 1.000 | 0 | 96.9 | 79.2 | 125 | | | |
| Ethylbenzene | 0.95 | 0.050 | 1.000 | 0 | 95.2 | 80.7 | 127 | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 98.0 | 81.6 | 129 | | | |
| Surr: 4-Bromofluorobenzene | 0.98 | | 1.000 | | 98.2 | 80 | 120 | | | |

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Sample Log-In Check List

Client Name: SMA-CARLSBAD

Work Order Number: 1806A21

RcptNo: 1

Received By: Jazzmine Burkhead 6/15/2018 9:00:00 AM

Completed By: Ashley Gallegos 6/15/2018 4:50:08 PM

Reviewed By: ENM 6/18/18
 LB. IO 6/18/18

Jazzmine Burkhead
AG

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes No NA
 4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
 5. Sample(s) in proper container(s)? Yes No
 6. Sufficient sample volume for indicated test(s)? Yes No
 7. Are samples (except VOA and ONG) properly preserved? Yes No
 8. Was preservative added to bottles? Yes No NA
 9. VOA vials have zero headspace? Yes No No VOA Vials
 10. Were any sample containers received broken? Yes No
 11. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
 12. Are matrices correctly identified on Chain of Custody? Yes No
 13. Is it clear what analyses were requested? Yes No
 14. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

of preserved bottles checked for pH: 10
 (<2 or >12 unless noted)
 Adjusted? 4/18/18
 Checked by: _____

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes No NA

| | | | |
|----------------------|-------|-------|---|
| Person Notified: | _____ | Date: | _____ |
| By Whom: | _____ | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | _____ | | |
| Client Instructions: | _____ | | |

16. Additional remarks:

17. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1 | 3.3 | Good | Yes | | | |

Chain-of-Custody Record

Client: SMAA

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation

NELAP Other

EDD (Type)

Turn-Around Time: 5 days turn

Standard Rush

Project Name:

Arzelle #1

Project #:

Project Manager:

Austin Wegmunt

Sampler: Heather Gattusa

On Ice: Yes No

Sample Temperature: 33

Date Time Matrix Sample Request ID

6/14/18 10:28 SW1 S2-3

10:50 SW1

10:35 SW2

10:42 SW3

10:58 SW4

Container Type and #

402

Preservative Type

1806A21

HEAL No.

-001

-002

-003

-004

-005

Date: 6/14/18 0800 Relinquished by: [Signature]

Date: 6/14/18 1900 Relinquished by: [Signature]

Received by: [Signature] Date Time: 6/15/18 0800

Received by: [Signature] Date Time: 6/15/18 09:00

Remarks:

Marathon

Analysis Request

BTX + MTBE + TMBs (8021)

BTX + MTBE + TPH (Gas only)

TPH 8015B (GRO / DRO / MRO)

TPH (Method 418.1)

EDB (Method 504.1)

PAH's (8310 or 8270 SIMS)

RCRA 8 Metals

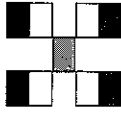
Anions (F⁻, Cl⁻, NO₃⁻, NO₂⁻, PO₄³⁻, SO₄²⁻)

8081 Pesticides / 8082 PCB's

8260B (VOA)

8270 (Semi-VOA)

Air Bubbles (Y or N)



HALL ENVIRONMENTAL ANALYSIS LABORATORY

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