

September 30, 2020

#5E29133-BG50

NMOCD District 1 1625 N. French Dr. Hobbs, New Mexico 88240

SUBJECT: Remediation Closure Report for the Maljamar 15 Federal #001 Release (NSAP0222728514), Maljamar, Lea County, New Mexico

To Whom it may Concern:

On behalf of Devon Energy Production Company, Souder, Miller & Associates (SMA) has prepared this Remediation Closure Report that describes the remediation of a release of liquids related to oil and gas production activities at the Maljamar 15 Federal #001 site. The site is in Unit G, Section 15, Township 17S, Range 32E, Lea County, New Mexico, on Federal land. Figure 1 illustrates the vicinity and site location on an USGS 7.5-minute quadrangle map.

Table 1 summarizes release information and Closure Criteria.

| | Table 1: Release Information and Closure Criteria | | | | | | | |
|---------------------------|---|------------------------------|------------------------------------|--|--|--|--|--|
| Name | Maljamar 15 Federal #001 | Company | Devon Energy Production Company | | | | | |
| API Number | 30-025-34549 | Location | 32.8382263, -103.7500076 | | | | | |
| Tracking Number | NS | SAP0222728514 | Į. | | | | | |
| Estimated Date of Release | 8/11/2002 | Date Reported to NMOCD | 8/12/2002 | | | | | |
| Land Owner | Federal | Reported To | NMOCD, BLM | | | | | |
| Source of Release | Hole located on glass portion of hea | ater treater, caus | sed by corrosion. | | | | | |
| Released Volume | 25 BBLS 15 BBLS | Released Material | Produced Water Crude Oil | | | | | |
| Recovered Volume | 0 BBLS 0 BBLS | Net Release | 25 BBLS 15 BBLS | | | | | |
| NMOCD Closure Criteria | <50 feet to groundwater | | | | | | | |
| SMA Response Dates | 7/23/2020, 9/8/2020 | | | | | | | |

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1.0 Background

On August 11, 2002, a release was discovered at the Maljamar 15 Federal #001 site due to a hole developing at the base of a heater-treater. Initial response activities were conducted by Devon personnel, and included source elimination and site containment activities. Figure 1 illustrates the vicinity and site location; Figure 2 illustrates the release location. The C-141 form is included in Appendix A.

2.0 Site Information and Closure Criteria

The Maljamar 15 Federal #001 is an active production facility located approximately 1.5 miles southeast of Maljamar, New Mexico on Federal (BLM) land at an elevation of approximately 4074 feet above mean sea level (amsl).

Depth to Groundwater

Based upon the OSE well database, the depth to groundwater is unknown due to a lack of available information on wells within the vicinity of Maljamar 15 Federal #001.

Wellhead Protection Area

There are no known water sources within ½-mile of the location, according to the New Mexico Office of the State Engineer (NMOSE) online water well database.

Distance to Nearest Significant Watercourse

The nearest significant watercourse is an unnamed spring, located approximately 3423 feet to the northwest.

Table 2 demonstrates the Closure Criteria applicable to this location. Figure 2 illustrates the site with 200 and 300-foot radii to indicate that it does not lie within a sensitive area as described in 19.15.29.12.C(4) NMAC.

Based on a lack of supportable groundwater data, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of less than 50 feet bgs.

3.0 Release Characterization and Remediation Activities

On July 23, 2020, SMA personnel performed site delineation activities at the Maljamar 15 Federal #001 site. SMA performed site delineation activities by collecting soil samples around the release site, based on figures provided by Devon personnel. Soil samples were field-screened for chloride using an electrical conductivity (EC) meter and for hydrocarbon impacts using a calibrated MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp.

A total of ten sample locations (L1-L10) were investigated using a hand-auger from surface level to depths of 2-feet bgs. A minimum of one sample was collected at each sampling location and field-screened using the methods above. A total of eighteen samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D.

On September 8, 2020, SMA returned to the site to guide the excavation of contaminated soil. SMA guided the excavation activities by collecting soil samples for field screening. Samples were screened for chloride using an electrical conductivity (EC) meter and/or for hydrocarbon impacts using a calibrated MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp and/or for hydrocarbon

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impacts using a Dexsil® PetroFLAG TPH Analyzer. The walls and base were excavated until field screening results indicated that the NMOCD Closure Criteria would be met. NMOCD was notified on September 3, 2020 that closure samples were expected to be collected in two (2) business days.

Based on initial sample results, two areas were excavated. Excavation area one, represented by initial sample locations L1 and L2, measured 35 feet by 10 feet by 1-foot. Upon completion, confirmation samples were collected from the base (CS1, CS2) and the sidewalls (SW1 - SW4) of the excavation. Excavation area two, represented by initial sample locations L5 and L6, measured 20 feet by 10 feet by 1- foot. Upon completion, confirmation samples were collected from the base (CS3) and the sidewalls (SW5 - SW8) of the excavation.

A total of eleven confirmation samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D. Laboratory samples were collected in accordance with the sampling protocol included in Appendix C. Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico (Appendix D).

Figure 3 shows the extent of the final excavation and all sample locations. All laboratory results are summarized in Table 3. Laboratory reports are included in Appendix D.

4.0 Site Recommendations

As demonstrated in Table 3, all closure samples meet the Closure Criteria. The site has been remediated to meet the standards of Table I of 19.15.29.12 NMAC. Contaminated soils were removed and replaced with clean backfill material to return the surface to previous contours. The contaminated soil was transported and disposed of at R360 Environmental Solutions Landfill, Lea County, NM, an NMOCD-permitted disposal facility.

SMA recommends no further action and requests closure of Incident Number NSAP0222728514.

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5.0 Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation; and preparing this 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 Ashley Maxwell at 575-689-8801 or Shawna Chubbuck at 505-325-7535.

Submitted by: SOUDER, MILLER & ASSOCIATES

Reviewed by:

Ashley Maxwell Project Manager Shawna Chubbuck Senior Scientist

REFERENCES:

 New Mexico Office of the State Engineer (NMOSE) online water well database https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 9/30/2020

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ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map

Figure 2: Surface Water Radius Map Figure 3: Site and Sample Location Map

Tables:

Table 2: NMOCD Closure Criteria Justification

Table 3: Summary of Sample Results

Appendices:

Appendix A: Form C141

Appendix B: NMOSE Wells Report Appendix C: Sampling Protocol

Appendix D: Laboratory Analytical Reports

Appendix E: Photo Log

FIGURES

TABLES

Table 2: NMOCD Closure Criteria

| Site Information (19.15.29.11.A(2, 3, and 4) NMAC | Source/Notes | |
|--|--------------|--|
| Depth to Groundwater (feet bgs) | N/A | New Mexico Office of the State Engineer |
| Hortizontal Distance From All Water Sources Within 1/2 Mile (ft) | N/A | United States Geological Survey Topo Map |
| Hortizontal Distance to Nearest Significant Watercourse (ft) | 3423.82 | Unnamed Spring to the Northeast |

| Closure Criteria (19.15 | .29.12.B(4) and | l Table 1 NMAC) | | | | |
|---|---|-----------------|--------------|---------|---------|----|
| | | | | | | |
| Depth to Groundwater | Chloride *numerical limit or background, whichever is greater | ТРН | GRO + DRO | ВТЕХ | Benzene | |
| < 50' BGS | Х | 600 | 100 | | 50 | 10 |
| 51' to 100' | | 10000 | 2500 | 1000 | 50 | 10 |
| >100' | | 20000 | 2500 | 1000 | 50 | 10 |
| Surface Water | yes or no | | if ye | s, then | | |
| <300' from continuously flowing watercourse or other significant | | | | | | |
| watercourse? | No | | | | | |
| <200' from lakebed, sinkhole or playa lake? | No | | | | | |
| Water Well or Water Source | | | | | | |
| <500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes? | No | | | | | |
| <1000' from fresh water well or spring? | No | † | | | | |
| Human and Other Areas | - | 600 | 100 | | 50 | 10 |
| <300' from an occupied permanent residence, school, hospital, institution or church? | No | | | | | |
| within incorporated municipal boundaries or within a defined | | | | | | |
| municipal fresh water well field? | No | | | | | |
| <100' from wetland? | No | | | | | |
| within area overlying a subsurface mine | No | | | | | |
| within an unstable area? | No (Low.Karst) | | | | | |
| within a 100-year floodplain? | No |] | | | | |

Devon Energy Production Company Maljamar 15 Fed 1

Table 3: Sample Results

| | Depth of Sample Action | | | | od 8021B | | Metho | d 8015D | | Method 300.0 |
|-----------|------------------------|-----------------------|-----------|---------|---------------|-------|-------|-----------|-------|-----------------|
| Sample ID | Sample Date (feet bgs) | Taken | ВТЕХ | Benzene | GRO | DRO | MRO | Total TPH | CI- | |
| | | | | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| NM | | ion Requirement (| • | 50 | 10 | | | | 100 | 600 |
| | NMOCD Clos | sure Criteria (>4 ft) | | 50 | 10 | | | | 101 | |
| L1 | | Surface | Excavate | <0.215 | <0.024 | <4.8 | 11 | 110 | 121 | <60 |
| | | 1 | In-Situ | <0.225 | <0.025 | <5.0 | <9.0 | <45 | <59 | <60 |
| L2 | | Surface | Excavate | <0.213 | <0.024 | <4.7 | 530 | 1400 | 1930 | <60 |
| | | 1 | Excavate | <0.219 | <0.024 | <4.9 | 110 | 240 | 350 | <60 |
| L3 | | Surface | In-Situ | <0.219 | <0.024 | <4.9 | <9.9 | 69 | 69 | <60 |
| | | 1 | In-Situ | <0.212 | <0.024 | <4.7 | <9.4 | <47 | <61.1 | <60 |
| L4 | | Surface | In-Situ | <0.213 | <0.024 | <4.7 | <9.5 | <48 | <62.2 | <60 |
| | | 1 | In-Situ | <0.213 | <0.024 | <4.7 | <9.5 | <48 | <62.2 | <60 |
| | 7/23/2020 | Surface | Excavate | <0.207 | <0.023 | <4.6 | 11000 | 8500 | 19500 | <60 |
| L5 | 7,23,2020 | 1 | Excavate | <0.207 | <0.023 | <4.6 | 1500 | 2500 | 4000 | <60 |
| | | 2 | In-Situ | <0.217 | <0.024 | <4.8 | 22 | <48 | 22 | <60 |
| L6 | | Surface | Excavate | <0.217 | <0.024 | <4.8 | <9.9 | 100 | 100 | <60 |
| | | 1 | In-Situ | <0.215 | <0.024 | <4.8 | <9.7 | <48 | <62.5 | <60 |
| L7 | | Surface | In-Situ | <0.213 | <0.024 | <4.7 | <9.3 | <47 | <61 | <60 |
| | | 1 | In-Situ | <0.224 | <0.025 | <5.0 | <9.6 | <48 | <62.6 | <60 |
| L8 | | Surface | In-Situ | <0.224 | <0.025 | <5.0 | <8.9 | <45 | <58.9 | <60 |
| L9 | | Surface | In-Situ | <0.221 | <0.025 | <4.9 | <8.8 | <44 | <57.7 | 61 |
| L10 | | Surface | In-Situ | <0.212 | <0.024 | <4.7 | <8.9 | <44 | <57.6 | 200 |
| | | | | | ation Samples | | | | 1 | |
| CS1 | | | | <0.224 | <0.025 | <5.0 | <9.4 | <47 | <61.4 | <60 |
| CS2 | | 1 | | <0.220 | <0.025 | <4.9 | <9.8 | <49 | <63.7 | <60 |
| CS3 | | | | <0.224 | <0.025 | <5.0 | <9.6 | <48 | <62.6 | <60 |
| SW1 | | | | <0.225 | <0.025 | <5.0 | <9.7 | <49 | <63.7 | <60 |
| SW2 | | | | <0.219 | <0.024 | <4.9 | <9.5 | <47 | <61.4 | <60 |
| SW3 | 9/8/2020 | | Excavated | <0.225 | <0.025 | <5.0 | <9.7 | <49 | <63.7 | <60 |
| SW4 | | 0 - 1 | | <0.220 | <0.024 | <4.9 | <9.6 | <48 | <62.5 | <60 |
| SW5 | | | | <0.225 | <0.025 | <5.0 | <9.1 | <46 | <60.1 | <60 |
| SW6 | | | | <0.224 | <0.024 | <5.0 | <9.6 | <48 | <62.6 | <60 |
| SW7 | | | | <0.224 | <0.025 | <5.0 | <9.6 | <48 | <62.6 | <60 |
| SW8 | | | | <0.224 | <0.025 | <5.0 | <8.6 | <43 | <56.6 | <59 |

"--" = Not Analyzed

BG: Background sample

APPENDIX A FORM C141

| CD Permi | | | | | | | | | | | |
|---------------------------------------|-------------------------------|------------------------|--------------------|--------------|------------|-----------|----------------------------|--------------------------------------|-------------------|--|--|
| SAP022272 | | | V 6/V/6 V | a) 307 | 025-3 | 2/5/0 | | | | | |
| General Incident I | | AJOK | ASWS | <i>y</i> 30- | 020-0 | 74043 | | | | | |
| Site Name: | | | | | | | | | | | |
| Well: Facility: | [30-025-34549] MAL | JAMAR 15 FE | EDERAL #001 | | | | | | | | |
| Operator: | [106015] DEVON EN | NERGY PROD | DUCTION CO. | | | | | | | | |
| Status: | Closure Not Approve | | | | | | | Severity: | Major | | |
| Type: District: | Produced Water Rel Hobbs | ease | | | | | | Surface Owner: County: | Lea (25) | | |
| District | 110003 | | | | | | | county. | 200 (23) | | |
| Incident Location: | A-15-17S-32E 13 | | | | | | | | | | |
| Lat/Long: Directions: | 32.8382263,-103.75 | 00076 NAD83 | | | | | | | | | |
| Directions. | | | | | | | | | | | |
| Notes | | | | | | | | | | | |
| Source of Referral: | Industry Rep | | | | | | | Action / Escalation | on: | | |
| | | | | | | | | | | | |
| Resulted In Fire: | | | | | | | | Will or Has Reach | ned Watercourse: | | |
| Endangered Public H | ealth: | | | | | | | Property Or Envir | ronmental Damage: | | |
| Santa d Badalla | | | | | | | | | | | |
| Contact Details Contact Name: | | | | | | | | Contact Title: | | | |
| Contact Name. | | | | | | | | Contact Title. | | | |
| Event Dates | | | | | | | | | | | |
| Date of Discovery: Extension Date: | | 08/11/200 11/15/201 | | | | | | OCD Notified of N Cancelled Date: | Major Release: | 08/12/2002 | |
| Extension Date. | | 11/13/201 | | | | | | Cancelled Date. | | | |
| Initial C-141 Received | : | | | | | | | | | | |
| Characterization Rep | | 08/11/200 | 2 | | | | | | Report Approved: | | |
| Remediation Plan Re | ceivea: | | | | | | | Remediation Plan Remediation Due | | | |
| Closure Report Rece | ved: | | | | | | | Closure Report A | | | |
| | Material Ur Produced Water | | Volume Recovered 0 | Lost 25 | Units BBL | | | | | | |
| Date 08/15/2002 HOLE | N LOWER SIDE GLAS | S ON HEATE | R TREATER, C/ | AUSED B | Y CORRO | OSION, RE | Detail TH STAINLESS | STEEL NIPPLE, WII | L LEAVE AFFECTED | D AREA AIRING FOR A COUPLE OF DAYS, THEN | |
| | ND FERTILIZE | | | | | | | | | | |

| | Page 15 of | 92 |
|----------------|----------------|----|
| Incident ID | NSAP0222728514 | |
| District RP | | |
| Facility ID | | |
| Application ID | | |

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

| What is the shallowest depth to groundwater beneath the area affected by the release? | N/A (ft bgs) |
|---|------------------------|
| Did this release impact groundwater or surface water? | ☐ Yes ⊠ No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | ☐ Yes ⊠ No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | ☐ Yes ⊠ No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | ☐ Yes ⊠ No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | ☐ Yes ⊠ No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | ☐ Yes ⊠ No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | ☐ Yes ⊠ No |
| Are the lateral extents of the release within 300 feet of a wetland? | ☐ Yes ⊠ No |
| Are the lateral extents of the release overlying a subsurface mine? | ☐ Yes ⊠ No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | ☐ Yes ⊠ No |
| Are the lateral extents of the release within a 100-year floodplain? | ☐ Yes ⊠ No |
| Did the release impact areas not on an exploration, development, production, or storage site? | ☐ Yes ⊠ No |
| Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics. | rtical extents of soil |
| Characterization Report Checklist: Each of the following items must be included in the report. | |
| Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data | ls. |
| □ Data table of soil contaminant concentration data □ Depth to water determination | |
| Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs | |
| Photographs including date and GIS information | |
| ∑ Topographic/Aerial maps ∑ Laboratory data including chain of custody | |

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 10/19/2020 8:06:58 AM
State of New Mexico
Page 4 Oil Conservation Division

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| Incident ID | NSAP0222728514 |
|----------------|----------------|
| District RP | |
| Facility ID | |
| Application ID | |

| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. | | | | | | |
|--|--------------------------------|--|--|--|--|--|
| Printed Name: Tom Bynum | Title: EHS Consultant | | | | | |
| Signature: Tom Bynum | Date: <u>10/7/2020</u> | | | | | |
| email: tom.bynum@dvn.com | Telephone: <u>575-748-2663</u> | | | | | |
| | | | | | | |
| OCD Only | | | | | | |
| Received by: | Date: | | | | | |
| | | | | | | |

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Incident ID NSAP0222728514
District RP
Facility ID
Application ID

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

| Closure Report Attachment Checklist: Each of the following its | ems must be included in the closure report. |
|---|---|
| A scaled site and sampling diagram as described in 19.15.29.1 | 1 NMAC |
| Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection) | of the liner integrity if applicable (Note: appropriate OCD District office |
| ☐ Laboratory analyses of final sampling (Note: appropriate ODC | District office must be notified 2 days prior to final sampling) |
| Description of remediation activities | |
| | |
| and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a | nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially neditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete. Title: _EHS Consultant |
| OCD Only | |
| Received by: | Date: |
| | of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations. |
| Closure Approved by: Juttan Hall | Date: 01/13/2023 |
| Printed Name: Brittany Hall | Title: Environmental Specialist |

APPENDIX B NMOSE WELLS REPORT



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

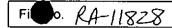
UTMNAD83 Radius Search (in meters):

Easting (X): 616985.53 **Northing (Y):** 3634044.95 **Radius:** 805

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.

8/25/20 2:50 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER





NEW MEXICO OFFICE OF THE STATE ENGINEER

APPLICATION FOR PERMIT TO DRILL A WELL WITH NO CONSUMPTIVE USE OF WATER



(check applicable box):

| ··· | For fees, see State Engineer we | ebsite: http://www.ose.state.i | nm.us/ 2-31505 8/0= |
|--|--|--------------------------------|---|
| Purpose: [| Pollution Control And / Or Recovery | ✓ ☐ Geo-Thermal | |
| | ☐ Construction Site De-Watering | Other (Describe | e): |
| | ☐ Mineral De-Watering | | |
| | | | |
| A separate permit will be rec | quired to apply water to beneficial use. | | |
| ☐ Temporary Request - Re | equested Start Date: | Reques | ted End Date: |
| Plugging Plan of Operations | Submitted? Yes No | | |
| | | | |
| · · · · | | | |
| 1. APPLICANT(S) | | - ₁ | |
| Name: LINN Energy | | Name: | |
| Contact or Agent: | check here if Agent | Contact or Agent: | check here if Agent |
| Daniel Frick | | | |
| Mailing Address: 600 Travis | s, Suite 5100 | Mailing Address: | |
| City: Houston | · · · | City: | |
| State: TX | Zip Code: 77002 | State: | Zip Code: |
| Db (004)040 4007 | ————————————————————————————————————— | 5. | |
| Phone: (281)840-4267 Phone (Work): (713)703-024 | ☐ Home ☒ Cell 40 | Phone: Phone (Work): | ☐ Home ☐ Cell ST |
| E-mail (optional): dfrick@lin | nnenergy.com | E-mail (optional): | ME EN SWELL |
| | | | <u>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</u> |
| | | | NEER OFFICE 5 A 10: 54 |
| | | | OFF MEXI V IO |
| | | | : 51 |
| | FOR OSE INTERN | IAL USE | Application for Permit, Form wr-07, Rev 4/12/12 |
| | File Number: RA | -118Z8 | Trn Number: 504674 |
| | | | RING/MONITOR WELL |
| | Sub-Basin: | | , |
| | PCW /LOG Due Da | 10: May 31,21 | DIS Page 1 of 3 |



| Location Required: Coordin (Lat/Long - WGS84). District II (Roswell) and Dist | | | | | _ |
|---|-------------------------------|--|-----------------------|---|----------------------------|
| NM State Plane (NAD83) NM West Zone NM East Zone NM Central Zone | (Feet) | UTM (NAD83) (Met Zone 12N Zone 13N | | | 684) (to the nearest |
| Well Number (if known): | X or Easting or Longitude: | Y or Northing or Latitude: | (Quarters or Ha | rvey System (PLSS) alves , Section, Tow Survey Map & Tract; ubdivision; OR | nship, Range) OR |
| SB-1 | -103 44' 53.201" | 32 50' 14.154" | | | ···· |
| MW-1 | -103 44' 53.201" | 32 50' 14.154" | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| NOTE: If more well location Additional well descriptions | | | n WR-08 (Attachme | | iions) |
| Other description relating well | to common landmarl | ks, streets, or other | | | |
| Vell is on land owned by: Bu | reau Of Land Manag | jement | | | |
| Vell Information: NOTE: If n If yes, how many | nore than one (1) we | ell needs to be des | scribed, provide att | achment. Attached | ? ☐ Yes ⊠ No |
| Approximate depth of well (fee | et): 60.00 | | Dutside diameter of v | well casing (inches): | 4.00 |
| riller Name: Straub Corpora | ation | (| Oriller License Numb | per: WD1478 | |
| ADDITIONAL STATEMENTS | | | | | |
| his application is for the co biund in the soil boring. The lanagement and the New Mo | e delineation is part | of a soil contamir | | | |
| | | | | | STATE ROSWI |
| | | | | A.100. | E ENGINE |
| | F | FOR OSE INTERNAL | USE | Applica | tion For Period Form wr-07 |
| | F | File Number: RA- | 11828 | Trn Number: | 5 30 50467 |

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

| | and the same and t | action to the approach. | |
|--------------------------------|--|--|--|
| Exploratory: | Pollution Control and/or Recovery: | Construction | Mine De-Watering: |
| ☐ Include a | ☐ Include a plan for pollution | De-Watering: | ☐ Include a plan for pollution |
| description of any proposed | control/recovery, that includes the following: | Include a description of the proposed dewatering | control/recovery, that includes the following: A description of the need for mine |
| pump test, if | ☒ A description of the need for the | operation, | dewatering. |
| applicable. | pollution control or recovery operation. | ☐ The estimated duration of | ☐ The estimated maximum period of time |
| , , | ☐ The estimated maximum period of | the operation, | for completion of the operation. |
| | time for completion of the operation. | ☐ The maximum amount of | The source(s) of the water to be diverted. |
| | ☐ The annual diversion amount. | water to be diverted, | ☐The geohydrologic characteristics of the |
| | ☑ The annual consumptive use amount. | A description of the need | aquifer(s). |
| | ☐ The maximum amount of water to be | for the dewatering operation, and, | ☐The maximum amount of water to be diverted per annum. |
| | diverted and injected for the duration of | ☐ A description of how the | ☐The maximum amount of water to be |
| : | the operation. | diverted water will be disposed | diverted for the duration of the operation. |
| | ☐ The method and place of discharge. | of. | ☐The quality of the water. |
| Monitoring: | | Geo-Thermal: | ☐The method of measurement of water |
| Include the | water produced and discharged. | ☐ Include a description of the | diverted. |
| reason for the monitoring | ☐ The source of water to be injected. ☐ The method of measurement of | geothermal heat exchange | ☐The recharge of water to the aquifer. ☐Description of the estimated area of |
| well, and, | water injected. | project, ☐ The amount of water to be | hydrologic effect of the project. |
| Weil, alld, ☑ The | ☐ The characteristics of the aquifer. | diverted and re-injected for the | The method and place of discharge. |
| duration | The method of determining the | project, | An estimation of the effects on surface |
| of the planned | resulting annual consumptive use of | ☐ The time frame for | water rights and underground water rights |
| monitoring. | water and depletion from any related | constructing the geothermal | from the mine dewatering project. |
| | stream system. | heat exchange project, and, | ☐A description of the methods employed to |
| | ☑ Proof of any permit required from the | ☐ The duration of the project. | estimate effects on surface water rights and |
| | New Mexico Environment Department. An access agreement if the | ☐ Preliminary surveys, design data, and additional | underground water rights. ☐Information on existing wells, rivers, |
| | applicant is not the owner of the land on | information shall be included to | springs, and wetlands within the area of |
| | which the pollution plume control or | provide all essential facts | hydrologic effect. |
| | recovery well is to be located. | relating to the request. | |
| | applicant(s)), Shane Estep | int Name(s) my, our) knowledge and belief. | |
| 171 | | ,,, | |
| Sta | | | |
| Applicant Signat | <u>v</u> (| Applicant Signature | |
| Applicant Signat | ure / | Applicant Signature | • |
| | ACTION | OF THE STATE ENGINEER | |
| | | This application is: | |
| | ⊠)approved | partially approved | denied |
| | | | ontrary to the conservation of water in New |
| Mexico nor det | rimental to the public welfare and further su | ibject to the attached conditions of | f approval. |
| | 7.4 | . ~ | |
| Witness my hand | d and seal this 25^{++} day of M | ay 20 12. | for the State Engineer, |
| _ | | J | ₹ |
| Scott | A. Verhines, P.E. | , State Engineer | 2: ': # |
| | n. verraries, i.e. | , Otate Engineer | <u>- 1</u> |
| 1 1< | | # 1 1 1 | < > ₹₽ |
| ву: ШОГ | Uly | <u>Melinda</u> | Ø/IV(y = 南皇 |
| Signature | U | Print | |
| Tille: 11 /1-L | er Resource Technic | £0.40 | 20 SE |
| Title: W/L+(| i nosumo jecunic | 101 | |
| 1 11111 | | | |
| | FOR OS | E INTERNAL USE | Application for Permit, Form wr-07 |

File Number: R

Trn Number: 504674

Page 3 of 3

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NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

- 1A Depth of the well shall not exceed the thickness of the valley fill.
- 4 No water shall be appropriated and beneficially used under this permit.
- B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated.
- C Driller's well record must be filed with the State Engineer within 20 days after the well is drilled or driven. Well record forms will be provided by the State Engineer upon request.
- C2 No water shall be diverted from this well except for testing purposes which shall not exceed twenty (20) cumulative days, and well shall be plugged or capped on or before, unless a permit to use water from this well is acquired from the Office of the State Engineer.
- LOG The Point of Diversion RA 11828 POD1 must be completed and the Well Log filed on or before 05/31/2013.
- LOG The Point of Diversion RA 11828 POD2 must be completed and the Well Log filed on or before 05/31/2013.

The well shall be constructed, maintained, and operated in a manner that all water encountered shall be confined to the aquifer in which it is encountered.

Trn Desc: SOIL BORING/MONITOR WELL

File Number: RA 11828

Trn Number: 504674

1372 1 1 11.

NEW MEXICO STATE ENGINEER OFFICE

Sc. PERMIT TO EXPLORE Ey: ACTION OF STATE ENGINEER Date Rcvd. Corrected: Notice of Intention Rcvd: Formal Application Rcvd: 05/25/2012 Pub. of Notice Ordered: Date Returned - Correction: Affidavit of Pub. Filed: This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously. Mitness my hand and seal this 25 day of May A.D., 2012 Scott A. Verhines, P.E. , State Engineer By: Melinda Tai De 1

Trn Desc: SOIL BORING/MONITOR WELL

File Number: RA 11828

Trn Number: 504674

Scott A. Verhines, P.E. State Engineer



Rell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 504674 File Nbr: RA 11828

May. 25, 2012

SHANE ESTEP ETECH ENVIRONMENTAL AND SAFETY SOLUTIONS, INC. PO BOX 8469 MIDLAND, TX 79708-8469

Greetings:

Enclosed is your copy of the above numbered permit that has been approved subject to the conditions set forth on the approval page. In accordance with the conditions of approval, the well can only be tested for 10 cumulative days, and the well is to be plugged on or before 05/31/2013, unless a permit to use the water is acquired from this office.

A Well Record & Log (OSE Form wr-20) shall be filed in this office within twenty (20) days after completion of drilling, but no later than 05/31/2013.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us or will be mailed upon request.

Sincerely,

Melinda Spivey (575)622-6521

Enclosure

explore

Shane Estep

From: Sent: Fred Holmes [fred@etechenv.com] Thursday, May 24, 2012 8:54 AM

To:

'Shane Estep'

Subject:

FW: Etech-LINN Energy - MGU 77 Permission to perform soil borings

Shane:

Please see below the authorization sent for the soil boring at the MGU 77 site. Particulars on the site are included in the email. BLM wanted to use email for approval stating that their acknowledgment digitally does give their signed approval to perform this task.

Thanks

Fred Holmes

Etech Environmental & Safety Solutions, Inc.

P.O. Box 8469

Midland, Texas 79708-8469 Phone: 432-563-2200 Fax: 432-563-2213 E-mail: fred@etechenv.com

CONFIDENTIAL

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From: Amos, James A [mailto:jamos@blm.gov]
Sent: Wednesday, May 16, 2012 8:49 AM

To: fred@etechenv.com

Subject: FW: Etech-LINN Energy - MGU 77 Permission to perform soil borings

Try again, thanks

From: Amos, James A

Sent: Tuesday, May 15, 2012 7:18 AM

To: 'Fred Holmes'

Cc: Bad Bear, Trishia C; 'Leking, Geoffrey R, EMNRD'; 'Daniel Frick'

Subject: RE: Etech-LINN Energy - MGU 77 Permission to perform soil borings

Fred,

The BLM is authorizing you to take appropriate action to be able to delineate the site. This is to include the use of a rig to conduct soil borings as needed. If any major surface disturbing activities are to be involved, get back to me. I would like to be copied on any plans etc. that are currently in place. Provide prior notification of activities for witnessing. If any questions, please get back to me. Thanks

J. Amos

SEPS, CFO

From: Fred Holmes [mailto:fred@etechenv.com]

Sent: Monday, May 14, 2012 1:45 PM

To: Amos, James A

Cc: Bad Bear, Trishia C; 'Leking, Geoffrey R, EMNRD'; 'Daniel Frick'

Subject: Etech-LINN Energy - MGU 77 Permission to perform soil borings

Importance: High

Jim:

Following our conversation on this date, this is to confirm that Etech Environmental & Safety Solutions, Inc. (Etech) is seeking permission on behalf of LINN Energy to perform subsurface delineation of impacted soils at the Maljamar Grayburg Unit, Well Number 77 located in Lea County, NM. Particulars on the location are as follows:

LINN Energy, Maljamar Grayburg Unit No. 77

API No.: 30-025-50062

Legal: H-15-17S-32E, 2310 FNL & 660 FEL GPS: N32° 50′ 14.154, W103° 44′ 53.201″

The delineation will include soil (borings) in an area where excavation has reached the vertical limits and hydrocarbon levels are still above OCD regulatory threshold levels. In accordance with OCD stipulations for the site, a liner will be installed in the bottom of the excavation, then backfilled to allow the access by a drilling rig. The delineation will include the completion of soil boring(s) to determine the vertical extent of the impact and may include (but at this time is not foreseen), the installation of monitors well(s). As the Bureau of Land Management (BLM) is the surface land owner, permission must be obtained from the landowner per the New Mexico State Engineers Office before these activities can commence.

Thank you for your assistance on this matter. I will look forward to your response.

Respectfully,

Fred Holmes

Etech Environmental & Safety Solutions, Inc.

P.O. Box 8469

Midland, Texas 79708-8469

Phone: 432-563-2200

Fax: 432-563-2213

E-mail: fred@etechenv.com

STATE ENGINEER OFFICE ROSWELL, NEW MEXICO

- 1

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Locator Tool Report

General Information:

Application ID:30

Date: 05-25-2012

Time: 17:18:39

WR File Number: RA

Purpose: POINT OF DIVERSION

Applicant First Name: LINN Applicant Last Name: ENERGY

GW Basin: ROSWELL ARTESIAN

County: LEA

Critical Management Area Name(s): NONE Special Condition Area Name(s): NONE

Land Grant Name: NON GRANT

PLSS Description (New Mexico Principal Meridian):

SE 1/4 of NW 1/4 of SE 1/4 of NE 1/4 of Section 15, Township 17S, Range 32E.

Coordinate System Details:

Geographic Coordinates:

Latitude:

32 Degrees 50 Minutes 14.2 Seconds N

Longitude:

103 Degrees 44 Minutes 53.2 Seconds W

Universal Transverse Mercator Zone: 13N

NAD 1983(92) (Meters) NAD 1983(92) (Survey Feet) NAD 1927 (Meters) NAD 1927 (Survey Feet) N: 3,633,941 E: 617,164 N: 11,922,353 E: 2,024,813

N: 3,633,737 E: 617,214

N: 11,921,686 E: 2,024,977

State Plane Coordinate System Zone: New Mexico East

NAD 1983(92) (Meters) NAD 1983(92) (Survey Feet) NAD 1927 (Meters) NAD 1927 (Survey Feet) N: 203,859 N: 668,828 E: 219,786 E: 721,083

N: 203,839

E: 207,235

N: 668,763

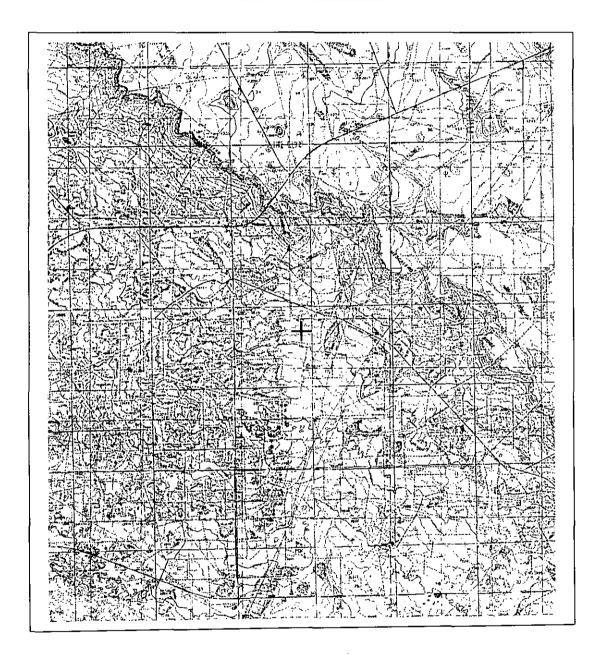
E: 679,905

RA-11828 POD 1 + POD 2 504674

Print Date: 05/25/2012

NEW MEXICO OFFICE OF STATE ENGINEER

Locator Tool Report





WR File Number: RA

Scale: 1:75,665

Northing/Easting: UTM83(92) (Meter): N: 3,633,941

E: 617,164

Northing/Easting: SPCS83(92) (Feet): N: 668,828

E: 721,083

GW Basin: Roswell Artesian

Page 2 of 2

Print Date: 05/25/2012 RA-1 1828 POD 1 + POD2 504674

APPENDIX C SAMPLING PROTOCOL



Sampling Protocol

Representatives from SMA chose the Judgmental Sampling Method as described in EPA's Final Sampling Guidance for SW-846, 2002 to adequately quantify contaminant concentrations on Cotton Draw Unit #294H Location. The utility of this particular method functions on the sufficient knowledge of the contaminant, which we possess. This design is also useful when identifying the composition of a release, which we have documented. In addition, this sampling design was chosen for this project because of the locations uniform soil type, and the several operational considerations (such as the liner within the battery and the construction of a new facility) that precluded the implementation of a different statistical design.

The soil samples were collected in laboratory supplied containers in accordance with this sampling protocol, immediately placed on ice and sent under standard chain-of-custody protocols to Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico for analysis. A total of eight (8) samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D.

Sampling Analysis Field Quality Assurance Procedures

A unique sample numbering was used to identify each sample collected and designated for on-site and off-site laboratory analysis. The purpose of this numbering scheme was to provide a tracking system for the retrieval of analytical and field data on each sample. Sample identification numbers were recorded on sample labels or tags, field notes, chain-of-custody records (COC) and all other applicable documentation used during the project. Sample labels were affixed to all sample containers during sampling activities. Information was recorded on each sample container label at the time of sample collection. The information recorded on the labels were as follows: sample identification number; sample type (discrete or composite); site name and area/location number; analysis to be performed; type of chemical preservative present in container; date and time of sample collection; and sample collector's name and initials. All samples were packed in ice in an approved rigid body container, custody sealed signed and shipped to the appropriate laboratory via insured currier service.

COC procedures implemented for the project provided documentation of the handling of each sample from the time of collection until completion of laboratory analysis. A COC form serves as a legal record of possession of the sample. A sample is considered to be under custody if one or more of the following criteria are met: the sample is in the sampler's possession; the sample is in the sampler's view after being in possession; the sample was in the sampler's possession and then was placed into a locked area to prevent tampering; and/or the sample is in a designated secure area. Custody was documented throughout the project field sampling activities by a chain-of custody form initiated each day during which samples are collected. Container custody seals placed on either individual samples or on the rigid body container were used to ensure that no sample tampering occurs between the time the samples are placed into the containers and the time the containers are opened for analysis at the laboratory. Container custody seals were signed and dated by the individual responsible for completing the COC form contained within the container.

APPENDIX D LABORATORY ANALYTICAL REPORTS



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

August 05, 2020

Ashley Maxwell Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-8801

FAX

RE: Mal jamar 15 Fed 1 OrderNo.: 2007E97

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 18 sample(s) on 7/30/2020 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,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Project:

Lab ID:

CLIENT: Souder, Miller & Associates

Mal jamar 15 Fed 1

Analytical Report

Lab Order **2007E97**

Date Reported: 8/5/2020

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: L1-Surface

Collection Date: 7/23/2020 8:00:00 AM

2007E97-001 **Matrix:** SOIL **Received Date:** 7/30/2020 9:25:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|--------|---------------------|---------------|
| EPA METHOD 300.0: ANIONS | | | | | Analys | t: CJS |
| Chloride | ND | 60 | mg/Kg | 20 | 8/3/2020 7:20:00 PM | 54133 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | | | | Analys | t: BRM | |
| Diesel Range Organics (DRO) | 11 | 9.2 | mg/Kg | 1 | 8/4/2020 8:52:57 AM | 54086 |
| Motor Oil Range Organics (MRO) | 110 | 46 | mg/Kg | 1 | 8/4/2020 8:52:57 AM | 54086 |
| Surr: DNOP | 117 | 30.4-154 | %Rec | 1 | 8/4/2020 8:52:57 AM | 54086 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analys | t: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 8/2/2020 5:54:27 PM | 54080 |
| Surr: BFB | 100 | 75.3-105 | %Rec | 1 | 8/2/2020 5:54:27 PM | 54080 |
| EPA METHOD 8021B: VOLATILES | | | | | Analys | t: NSB |
| Benzene | ND | 0.024 | mg/Kg | 1 | 8/2/2020 5:54:27 PM | 54080 |
| Toluene | ND | 0.048 | mg/Kg | 1 | 8/2/2020 5:54:27 PM | 54080 |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 8/2/2020 5:54:27 PM | 54080 |
| Xylenes, Total | ND | 0.095 | mg/Kg | 1 | 8/2/2020 5:54:27 PM | 54080 |
| Surr: 4-Bromofluorobenzene | 103 | 80-120 | %Rec | 1 | 8/2/2020 5:54:27 PM | 54080 |

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

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 Quanitative 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 Limit

Page 1 of 28

Analytical Report

Lab Order 2007E97

Date Reported: 8/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L1-1'

 Project:
 Mal jamar 15 Fed 1
 Collection Date: 7/23/2020 8:05:00 AM

 Lab ID:
 2007E97-002
 Matrix: SOIL
 Received Date: 7/30/2020 9:25:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|---------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | : CJS |
| Chloride | ND | 60 | mg/Kg | 20 | 8/3/2020 7:32:25 PM | 54133 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst | BRM |
| Diesel Range Organics (DRO) | ND | 9.0 | mg/Kg | 1 | 8/1/2020 5:17:41 AM | 54086 |
| Motor Oil Range Organics (MRO) | ND | 45 | mg/Kg | 1 | 8/1/2020 5:17:41 AM | 54086 |
| Surr: DNOP | 96.7 | 30.4-154 | %Rec | 1 | 8/1/2020 5:17:41 AM | 54086 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | : NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 8/2/2020 6:17:57 PM | 54080 |
| Surr: BFB | 98.8 | 75.3-105 | %Rec | 1 | 8/2/2020 6:17:57 PM | 54080 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB |
| Benzene | ND | 0.025 | mg/Kg | 1 | 8/2/2020 6:17:57 PM | 54080 |
| Toluene | ND | 0.050 | mg/Kg | 1 | 8/2/2020 6:17:57 PM | 54080 |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 8/2/2020 6:17:57 PM | 54080 |
| Xylenes, Total | ND | 0.10 | mg/Kg | 1 | 8/2/2020 6:17:57 PM | 54080 |
| Surr: 4-Bromofluorobenzene | 103 | 80-120 | %Rec | 1 | 8/2/2020 6:17:57 PM | 54080 |

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

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 Quanitative 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 Limit

Page 2 of 28

Analytical Report

Lab Order 2007E97

Date Reported: 8/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L2-Surface

 Project:
 Mal jamar 15 Fed 1
 Collection Date: 7/23/2020 8:08:00 AM

 Lab ID:
 2007E97-003
 Matrix: SOIL
 Received Date: 7/30/2020 9:25:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------|-------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | | Analyst | : CJS |
| Chloride | ND | 60 | | mg/Kg | 20 | 8/3/2020 7:44:50 PM | 54133 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | | Analyst | BRM |
| Diesel Range Organics (DRO) | 530 | 93 | | mg/Kg | 10 | 8/4/2020 10:50:05 AM | 54086 |
| Motor Oil Range Organics (MRO) | 1400 | 460 | | mg/Kg | 10 | 8/4/2020 10:50:05 AM | 54086 |
| Surr: DNOP | 0 | 30.4-154 | S | %Rec | 10 | 8/4/2020 10:50:05 AM | 54086 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst | : NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 8/2/2020 7:28:21 PM | 54080 |
| Surr: BFB | 98.9 | 75.3-105 | | %Rec | 1 | 8/2/2020 7:28:21 PM | 54080 |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst | : NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 8/2/2020 7:28:21 PM | 54080 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 8/2/2020 7:28:21 PM | 54080 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 8/2/2020 7:28:21 PM | 54080 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 8/2/2020 7:28:21 PM | 54080 |
| Surr: 4-Bromofluorobenzene | 103 | 80-120 | | %Rec | 1 | 8/2/2020 7:28:21 PM | 54080 |

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

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 Quanitative Limit

- 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 Limit

Page 3 of 28

Lab Order 2007E97

Date Reported: 8/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L2-1'

 Project:
 Mal jamar 15 Fed 1
 Collection Date: 7/23/2020 8:10:00 AM

 Lab ID:
 2007E97-004
 Matrix: SOIL
 Received Date: 7/30/2020 9:25:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | : CJS |
| Chloride | ND | 60 | mg/Kg | 20 | 8/3/2020 7:57:14 PM | 54133 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst | BRM |
| Diesel Range Organics (DRO) | 110 | 9.3 | mg/Kg | 1 | 8/4/2020 11:09:16 AM | 54086 |
| Motor Oil Range Organics (MRO) | 240 | 47 | mg/Kg | 1 | 8/4/2020 11:09:16 AM | 54086 |
| Surr: DNOP | 114 | 30.4-154 | %Rec | 1 | 8/4/2020 11:09:16 AM | 54086 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | : NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 8/2/2020 7:51:43 PM | 54080 |
| Surr: BFB | 99.8 | 75.3-105 | %Rec | 1 | 8/2/2020 7:51:43 PM | 54080 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB |
| Benzene | ND | 0.024 | mg/Kg | 1 | 8/2/2020 7:51:43 PM | 54080 |
| Toluene | ND | 0.049 | mg/Kg | 1 | 8/2/2020 7:51:43 PM | 54080 |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 8/2/2020 7:51:43 PM | 54080 |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 8/2/2020 7:51:43 PM | 54080 |
| Surr: 4-Bromofluorobenzene | 105 | 80-120 | %Rec | 1 | 8/2/2020 7:51:43 PM | 54080 |

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

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 Quanitative 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 Limit

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Lab Order 2007E97

Date Reported: 8/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L3-Surface

 Project:
 Mal jamar 15 Fed 1
 Collection Date: 7/23/2020 8:15:00 AM

 Lab ID:
 2007E97-005
 Matrix: SOIL
 Received Date: 7/30/2020 9:25:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | : CJS |
| Chloride | ND | 60 | mg/Kg | 20 | 8/3/2020 8:09:39 PM | 54133 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst | BRM |
| Diesel Range Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 8/4/2020 11:28:28 AM | 54086 |
| Motor Oil Range Organics (MRO) | 69 | 50 | mg/Kg | 1 | 8/4/2020 11:28:28 AM | 54086 |
| Surr: DNOP | 103 | 30.4-154 | %Rec | 1 | 8/4/2020 11:28:28 AM | 54086 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | : NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 8/2/2020 8:15:05 PM | 54080 |
| Surr: BFB | 98.5 | 75.3-105 | %Rec | 1 | 8/2/2020 8:15:05 PM | 54080 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB |
| Benzene | ND | 0.024 | mg/Kg | 1 | 8/2/2020 8:15:05 PM | 54080 |
| Toluene | ND | 0.049 | mg/Kg | 1 | 8/2/2020 8:15:05 PM | 54080 |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 8/2/2020 8:15:05 PM | 54080 |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 8/2/2020 8:15:05 PM | 54080 |
| Surr: 4-Bromofluorobenzene | 104 | 80-120 | %Rec | 1 | 8/2/2020 8:15:05 PM | 54080 |

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

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 Quanitative Limit

- 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 Limit

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Lab Order **2007E97**

Date Reported: 8/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L3-1'

 Project:
 Mal jamar 15 Fed 1
 Collection Date: 7/23/2020 8:20:00 AM

 Lab ID:
 2007E97-006
 Matrix: SOIL
 Received Date: 7/30/2020 9:25:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|---------------------|---------------|
| EPA METHOD 300.0: ANIONS | | | | | Analys | t: CJS |
| Chloride | ND | 60 | mg/Kg | 20 | 8/3/2020 8:22:03 PM | 54133 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analys | t: BRM |
| Diesel Range Organics (DRO) | ND | 9.4 | mg/Kg | 1 | 8/1/2020 6:54:22 AM | 54086 |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 8/1/2020 6:54:22 AM | 54086 |
| Surr: DNOP | 95.6 | 30.4-154 | %Rec | 1 | 8/1/2020 6:54:22 AM | 54086 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analys | t: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 8/2/2020 8:38:33 PM | 54080 |
| Surr: BFB | 101 | 75.3-105 | %Rec | 1 | 8/2/2020 8:38:33 PM | 54080 |
| EPA METHOD 8021B: VOLATILES | | | | | Analys | t: NSB |
| Benzene | ND | 0.024 | mg/Kg | 1 | 8/2/2020 8:38:33 PM | 54080 |
| Toluene | ND | 0.047 | mg/Kg | 1 | 8/2/2020 8:38:33 PM | 54080 |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 8/2/2020 8:38:33 PM | 54080 |
| Xylenes, Total | ND | 0.094 | mg/Kg | 1 | 8/2/2020 8:38:33 PM | 54080 |
| Surr: 4-Bromofluorobenzene | 106 | 80-120 | %Rec | 1 | 8/2/2020 8:38:33 PM | 54080 |

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

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 Quanitative 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 Limit

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Lab Order 2007E97

Date Reported: 8/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L4-Surface

 Project:
 Mal jamar 15 Fed 1
 Collection Date: 7/23/2020 8:25:00 AM

 Lab ID:
 2007E97-007
 Matrix: SOIL
 Received Date: 7/30/2020 9:25:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|---------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | : CJS |
| Chloride | ND | 60 | mg/Kg | 20 | 8/3/2020 8:34:28 PM | 54133 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst | BRM |
| Diesel Range Organics (DRO) | ND | 9.5 | mg/Kg | 1 | 8/4/2020 9:31:02 AM | 54086 |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 8/4/2020 9:31:02 AM | 54086 |
| Surr: DNOP | 116 | 30.4-154 | %Rec | 1 | 8/4/2020 9:31:02 AM | 54086 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | : NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 8/2/2020 9:02:06 PM | 54080 |
| Surr: BFB | 99.7 | 75.3-105 | %Rec | 1 | 8/2/2020 9:02:06 PM | 54080 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB |
| Benzene | ND | 0.024 | mg/Kg | 1 | 8/2/2020 9:02:06 PM | 54080 |
| Toluene | ND | 0.047 | mg/Kg | 1 | 8/2/2020 9:02:06 PM | 54080 |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 8/2/2020 9:02:06 PM | 54080 |
| Xylenes, Total | ND | 0.095 | mg/Kg | 1 | 8/2/2020 9:02:06 PM | 54080 |
| Surr: 4-Bromofluorobenzene | 104 | 80-120 | %Rec | 1 | 8/2/2020 9:02:06 PM | 54080 |

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

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 Quanitative 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 Limit

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Lab Order 2007E97

Date Reported: 8/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L4-1'

 Project:
 Mal jamar 15 Fed 1
 Collection Date: 7/23/2020 8:35:00 AM

 Lab ID:
 2007E97-008
 Matrix: SOIL
 Received Date: 7/30/2020 9:25:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|---------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | : CJS |
| Chloride | ND | 60 | mg/Kg | 20 | 8/3/2020 8:46:53 PM | 54133 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | Analyst | BRM |
| Diesel Range Organics (DRO) | ND | 9.5 | mg/Kg | 1 | 8/1/2020 7:42:45 AM | 54086 |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 8/1/2020 7:42:45 AM | 54086 |
| Surr: DNOP | 82.8 | 30.4-154 | %Rec | 1 | 8/1/2020 7:42:45 AM | 54086 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | : NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 8/2/2020 9:25:31 PM | 54080 |
| Surr: BFB | 100 | 75.3-105 | %Rec | 1 | 8/2/2020 9:25:31 PM | 54080 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB |
| Benzene | ND | 0.024 | mg/Kg | 1 | 8/2/2020 9:25:31 PM | 54080 |
| Toluene | ND | 0.047 | mg/Kg | 1 | 8/2/2020 9:25:31 PM | 54080 |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 8/2/2020 9:25:31 PM | 54080 |
| Xylenes, Total | ND | 0.095 | mg/Kg | 1 | 8/2/2020 9:25:31 PM | 54080 |
| Surr: 4-Bromofluorobenzene | 105 | 80-120 | %Rec | 1 | 8/2/2020 9:25:31 PM | 54080 |

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

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 Quanitative 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 Limit

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Lab Order 2007E97

Date Reported: 8/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L5-Surface

 Project:
 Mal jamar 15 Fed 1
 Collection Date: 7/23/2020 8:40:00 AM

 Lab ID:
 2007E97-009
 Matrix: SOIL
 Received Date: 7/30/2020 9:25:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------|-------|-----|---------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | | Analyst | : CJS |
| Chloride | ND | 60 | | mg/Kg | 20 | 8/3/2020 9:24:06 PM | 54133 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | GANICS | | | | | Analyst | BRM |
| Diesel Range Organics (DRO) | 11000 | 970 | | mg/Kg | 100 | 8/1/2020 8:06:57 AM | 54086 |
| Motor Oil Range Organics (MRO) | 8500 | 4900 | | mg/Kg | 100 | 8/1/2020 8:06:57 AM | 54086 |
| Surr: DNOP | 0 | 30.4-154 | S | %Rec | 100 | 8/1/2020 8:06:57 AM | 54086 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst | : NSB |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 8/2/2020 9:48:51 PM | 54080 |
| Surr: BFB | 95.3 | 75.3-105 | | %Rec | 1 | 8/2/2020 9:48:51 PM | 54080 |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst | : NSB |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 8/2/2020 9:48:51 PM | 54080 |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 8/2/2020 9:48:51 PM | 54080 |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 8/2/2020 9:48:51 PM | 54080 |
| Xylenes, Total | ND | 0.092 | | mg/Kg | 1 | 8/2/2020 9:48:51 PM | 54080 |
| Surr: 4-Bromofluorobenzene | 100 | 80-120 | | %Rec | 1 | 8/2/2020 9:48:51 PM | 54080 |

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

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 Quanitative Limit

- 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 Limit

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Lab Order 2007E97

Date Reported: 8/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L5-1'

 Project:
 Mal jamar 15 Fed 1
 Collection Date: 7/23/2020 8:48:00 AM

 Lab ID:
 2007E97-010
 Matrix: SOIL
 Received Date: 7/30/2020 9:25:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|--------|----------|------|-------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | | Analyst | CJS |
| Chloride | ND | 60 | | mg/Kg | 20 | 8/3/2020 9:36:31 PM | 54133 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst | BRM |
| Diesel Range Organics (DRO) | 1500 | 190 | | mg/Kg | 20 | 8/4/2020 9:40:35 AM | 54086 |
| Motor Oil Range Organics (MRO) | 2500 | 940 | | mg/Kg | 20 | 8/4/2020 9:40:35 AM | 54086 |
| Surr: DNOP | 0 | 30.4-154 | S | %Rec | 20 | 8/4/2020 9:40:35 AM | 54086 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst | : NSB |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 8/2/2020 10:12:15 PM | 54080 |
| Surr: BFB | 96.2 | 75.3-105 | | %Rec | 1 | 8/2/2020 10:12:15 PM | 54080 |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst | : NSB |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 8/2/2020 10:12:15 PM | 54080 |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 8/2/2020 10:12:15 PM | 54080 |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 8/2/2020 10:12:15 PM | 54080 |
| Xylenes, Total | ND | 0.092 | | mg/Kg | 1 | 8/2/2020 10:12:15 PM | 54080 |
| Surr: 4-Bromofluorobenzene | 102 | 80-120 | | %Rec | 1 | 8/2/2020 10:12:15 PM | 54080 |

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

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 Quanitative 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 Limit

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Lab Order 2007E97

Date Reported: 8/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L6-Surface

 Project:
 Mal jamar 15 Fed 1
 Collection Date: 7/23/2020 8:58:00 AM

 Lab ID:
 2007E97-011
 Matrix: SOIL
 Received Date: 7/30/2020 9:25:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | CJS |
| Chloride | ND | 60 | mg/Kg | 20 | 8/3/2020 9:48:56 PM | 54133 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst | BRM |
| Diesel Range Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 8/4/2020 9:50:09 AM | 54086 |
| Motor Oil Range Organics (MRO) | 100 | 49 | mg/Kg | 1 | 8/4/2020 9:50:09 AM | 54086 |
| Surr: DNOP | 125 | 30.4-154 | %Rec | 1 | 8/4/2020 9:50:09 AM | 54086 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 8/2/2020 10:35:42 PM | 54080 |
| Surr: BFB | 96.0 | 75.3-105 | %Rec | 1 | 8/2/2020 10:35:42 PM | 54080 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | NSB |
| Benzene | ND | 0.024 | mg/Kg | 1 | 8/2/2020 10:35:42 PM | 54080 |
| Toluene | ND | 0.048 | mg/Kg | 1 | 8/2/2020 10:35:42 PM | 54080 |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 8/2/2020 10:35:42 PM | 54080 |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 8/2/2020 10:35:42 PM | 54080 |
| Surr: 4-Bromofluorobenzene | 102 | 80-120 | %Rec | 1 | 8/2/2020 10:35:42 PM | 54080 |

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

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 Quanitative Limit

- 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 Limit

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Lab Order 2007E97

Date Reported: 8/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L6-1'

 Project:
 Mal jamar 15 Fed 1
 Collection Date: 7/23/2020 9:05:00 AM

 Lab ID:
 2007E97-012
 Matrix: SOIL
 Received Date: 7/30/2020 9:25:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | CAS |
| Chloride | ND | 60 | mg/Kg | 20 | 8/3/2020 7:00:44 PM | 54139 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst | CLP |
| Diesel Range Organics (DRO) | ND | 9.7 | mg/Kg | 1 | 8/3/2020 5:37:06 PM | 54135 |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 8/3/2020 5:37:06 PM | 54135 |
| Surr: DNOP | 97.4 | 30.4-154 | %Rec | 1 | 8/3/2020 5:37:06 PM | 54135 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | : NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 8/2/2020 10:59:13 PM | 54080 |
| Surr: BFB | 95.6 | 75.3-105 | %Rec | 1 | 8/2/2020 10:59:13 PM | 54080 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB |
| Benzene | ND | 0.024 | mg/Kg | 1 | 8/2/2020 10:59:13 PM | 54080 |
| Toluene | ND | 0.048 | mg/Kg | 1 | 8/2/2020 10:59:13 PM | 54080 |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 8/2/2020 10:59:13 PM | 54080 |
| Xylenes, Total | ND | 0.095 | mg/Kg | 1 | 8/2/2020 10:59:13 PM | 54080 |
| Surr: 4-Bromofluorobenzene | 102 | 80-120 | %Rec | 1 | 8/2/2020 10:59:13 PM | 54080 |

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

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 Quanitative Limit

- 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 Limit

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Lab Order **2007E97**

Date Reported: 8/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L7-Surface

 Project:
 Mal jamar 15 Fed 1
 Collection Date: 7/23/2020 9:15:00 AM

 Lab ID:
 2007E97-013
 Matrix: SOIL
 Received Date: 7/30/2020 9:25:00 AM

| Analyses | Result | RL (| Qual Units | DF | Date Analyzed | Batch |
|---|--------|----------|------------|----|---------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | : CAS |
| Chloride | ND | 60 | mg/Kg | 20 | 8/3/2020 7:13:05 PM | 54139 |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | Analyst | : DJF |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 8/2/2020 5:12:59 AM | 54081 |
| Surr: BFB | 99.2 | 70-130 | %Rec | 1 | 8/2/2020 5:12:59 AM | 54081 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | NICS | | | | Analyst | : CLP |
| Diesel Range Organics (DRO) | ND | 9.3 | mg/Kg | 1 | 8/3/2020 6:49:31 PM | 54135 |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 8/3/2020 6:49:31 PM | 54135 |
| Surr: DNOP | 96.8 | 30.4-154 | %Rec | 1 | 8/3/2020 6:49:31 PM | 54135 |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | Analyst | : DJF |
| Benzene | ND | 0.024 | mg/Kg | 1 | 8/2/2020 5:12:59 AM | 54081 |
| Toluene | ND | 0.047 | mg/Kg | 1 | 8/2/2020 5:12:59 AM | 54081 |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 8/2/2020 5:12:59 AM | 54081 |
| Xylenes, Total | ND | 0.095 | mg/Kg | 1 | 8/2/2020 5:12:59 AM | 54081 |
| Surr: 1,2-Dichloroethane-d4 | 92.3 | 70-130 | %Rec | 1 | 8/2/2020 5:12:59 AM | 54081 |
| Surr: 4-Bromofluorobenzene | 96.1 | 70-130 | %Rec | 1 | 8/2/2020 5:12:59 AM | 54081 |
| Surr: Dibromofluoromethane | 106 | 70-130 | %Rec | 1 | 8/2/2020 5:12:59 AM | 54081 |
| Surr: Toluene-d8 | 104 | 70-130 | %Rec | 1 | 8/2/2020 5:12:59 AM | 54081 |

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

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 Quanitative 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 Limit

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Lab Order **2007E97**

Date Reported: 8/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L7-1'

 Project:
 Mal jamar 15 Fed 1
 Collection Date: 7/23/2020 9:26:00 AM

 Lab ID:
 2007E97-014
 Matrix: SOIL
 Received Date: 7/30/2020 9:25:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--|--------|----------|------------|----|---------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | CAS |
| Chloride | ND | 60 | mg/Kg | 20 | 8/3/2020 7:50:08 PM | 54139 |
| EPA METHOD 8015D MOD: GASOLINE RANG | E | | | | Analyst | DJF |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 8/2/2020 6:38:49 AM | 54081 |
| Surr: BFB | 99.1 | 70-130 | %Rec | 1 | 8/2/2020 6:38:49 AM | 54081 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst | CLP |
| Diesel Range Organics (DRO) | ND | 9.6 | mg/Kg | 1 | 8/3/2020 7:13:33 PM | 54135 |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 8/3/2020 7:13:33 PM | 54135 |
| Surr: DNOP | 101 | 30.4-154 | %Rec | 1 | 8/3/2020 7:13:33 PM | 54135 |
| EPA METHOD 8260B: VOLATILES SHORT LIS | Т | | | | Analyst | : DJF |
| Benzene | ND | 0.025 | mg/Kg | 1 | 8/2/2020 6:38:49 AM | 54081 |
| Toluene | ND | 0.050 | mg/Kg | 1 | 8/2/2020 6:38:49 AM | 54081 |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 8/2/2020 6:38:49 AM | 54081 |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 8/2/2020 6:38:49 AM | 54081 |
| Surr: 1,2-Dichloroethane-d4 | 101 | 70-130 | %Rec | 1 | 8/2/2020 6:38:49 AM | 54081 |
| Surr: 4-Bromofluorobenzene | 96.6 | 70-130 | %Rec | 1 | 8/2/2020 6:38:49 AM | 54081 |
| Surr: Dibromofluoromethane | 108 | 70-130 | %Rec | 1 | 8/2/2020 6:38:49 AM | 54081 |
| Surr: Toluene-d8 | 101 | 70-130 | %Rec | 1 | 8/2/2020 6:38:49 AM | 54081 |

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

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 Quanitative 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 Limit

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Lab Order 2007E97

Date Reported: 8/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L8-Surface

 Project:
 Mal jamar 15 Fed 1
 Collection Date: 7/23/2020 9:36:00 AM

 Lab ID:
 2007E97-015
 Matrix: SOIL
 Received Date: 7/30/2020 9:25:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--|--------|----------|------------|----|---------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | CAS |
| Chloride | ND | 60 | mg/Kg | 20 | 8/3/2020 8:02:28 PM | 54139 |
| EPA METHOD 8015D MOD: GASOLINE RANG | E | | | | Analyst | : DJF |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 8/2/2020 8:04:28 AM | 54081 |
| Surr: BFB | 98.0 | 70-130 | %Rec | 1 | 8/2/2020 8:04:28 AM | 54081 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst | CLP |
| Diesel Range Organics (DRO) | ND | 8.9 | mg/Kg | 1 | 8/3/2020 7:37:33 PM | 54135 |
| Motor Oil Range Organics (MRO) | ND | 45 | mg/Kg | 1 | 8/3/2020 7:37:33 PM | 54135 |
| Surr: DNOP | 99.5 | 30.4-154 | %Rec | 1 | 8/3/2020 7:37:33 PM | 54135 |
| EPA METHOD 8260B: VOLATILES SHORT LIS | ST . | | | | Analyst | : DJF |
| Benzene | ND | 0.025 | mg/Kg | 1 | 8/2/2020 8:04:28 AM | 54081 |
| Toluene | ND | 0.050 | mg/Kg | 1 | 8/2/2020 8:04:28 AM | 54081 |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 8/2/2020 8:04:28 AM | 54081 |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 8/2/2020 8:04:28 AM | 54081 |
| Surr: 1,2-Dichloroethane-d4 | 99.8 | 70-130 | %Rec | 1 | 8/2/2020 8:04:28 AM | 54081 |
| Surr: 4-Bromofluorobenzene | 99.0 | 70-130 | %Rec | 1 | 8/2/2020 8:04:28 AM | 54081 |
| Surr: Dibromofluoromethane | 110 | 70-130 | %Rec | 1 | 8/2/2020 8:04:28 AM | 54081 |
| Surr: Toluene-d8 | 97.1 | 70-130 | %Rec | 1 | 8/2/2020 8:04:28 AM | 54081 |

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

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 Quanitative 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 Limit

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Lab Order 2007E97

Date Reported: 8/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Mal jamar 15 Fed 1

Lab ID: 2007E97-016

Matrix: SOIL

Collection Date: 7/23/2020 9:48:00 AM

Client Sample ID: L9-Surface

Received Date: 7/30/2020 9:25:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--|--------|----------|------------|----|---------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | CAS |
| Chloride | 61 | 60 | mg/Kg | 20 | 8/3/2020 8:14:48 PM | 54139 |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | Analyst | : DJF |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 8/2/2020 8:33:05 AM | 54081 |
| Surr: BFB | 101 | 70-130 | %Rec | 1 | 8/2/2020 8:33:05 AM | 54081 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | NICS | | | | Analyst | CLP |
| Diesel Range Organics (DRO) | ND | 8.8 | mg/Kg | 1 | 8/3/2020 8:01:30 PM | 54135 |
| Motor Oil Range Organics (MRO) | ND | 44 | mg/Kg | 1 | 8/3/2020 8:01:30 PM | 54135 |
| Surr: DNOP | 94.3 | 30.4-154 | %Rec | 1 | 8/3/2020 8:01:30 PM | 54135 |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | Analyst | : DJF |
| Benzene | ND | 0.025 | mg/Kg | 1 | 8/2/2020 8:33:05 AM | 54081 |
| Toluene | ND | 0.049 | mg/Kg | 1 | 8/2/2020 8:33:05 AM | 54081 |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 8/2/2020 8:33:05 AM | 54081 |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 8/2/2020 8:33:05 AM | 54081 |
| Surr: 1,2-Dichloroethane-d4 | 99.9 | 70-130 | %Rec | 1 | 8/2/2020 8:33:05 AM | 54081 |
| Surr: 4-Bromofluorobenzene | 99.2 | 70-130 | %Rec | 1 | 8/2/2020 8:33:05 AM | 54081 |
| Surr: Dibromofluoromethane | 104 | 70-130 | %Rec | 1 | 8/2/2020 8:33:05 AM | 54081 |
| Surr: Toluene-d8 | 95.9 | 70-130 | %Rec | 1 | 8/2/2020 8:33:05 AM | 54081 |

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

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 Quanitative Limit

- 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 Limit

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Lab Order **2007E97**

Date Reported: 8/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L10-Surface

 Project:
 Mal jamar 15 Fed 1
 Collection Date: 7/23/2020 9:56:00 AM

 Lab ID:
 2007E97-017
 Matrix: SOIL
 Received Date: 7/30/2020 9:25:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|---|--------|----------|------------|----|---------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | CAS |
| Chloride | 200 | 61 | mg/Kg | 20 | 8/3/2020 8:27:09 PM | 54139 |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | Analyst | : DJF |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 8/2/2020 9:01:36 AM | 54081 |
| Surr: BFB | 102 | 70-130 | %Rec | 1 | 8/2/2020 9:01:36 AM | 54081 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | NICS | | | | Analyst | : CLP |
| Diesel Range Organics (DRO) | ND | 8.9 | mg/Kg | 1 | 8/3/2020 8:25:25 PM | 54135 |
| Motor Oil Range Organics (MRO) | ND | 44 | mg/Kg | 1 | 8/3/2020 8:25:25 PM | 54135 |
| Surr: DNOP | 100 | 30.4-154 | %Rec | 1 | 8/3/2020 8:25:25 PM | 54135 |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | Analyst | : DJF |
| Benzene | ND | 0.024 | mg/Kg | 1 | 8/2/2020 9:01:36 AM | 54081 |
| Toluene | ND | 0.047 | mg/Kg | 1 | 8/2/2020 9:01:36 AM | 54081 |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 8/2/2020 9:01:36 AM | 54081 |
| Xylenes, Total | ND | 0.094 | mg/Kg | 1 | 8/2/2020 9:01:36 AM | 54081 |
| Surr: 1,2-Dichloroethane-d4 | 93.6 | 70-130 | %Rec | 1 | 8/2/2020 9:01:36 AM | 54081 |
| Surr: 4-Bromofluorobenzene | 100 | 70-130 | %Rec | 1 | 8/2/2020 9:01:36 AM | 54081 |
| Surr: Dibromofluoromethane | 104 | 70-130 | %Rec | 1 | 8/2/2020 9:01:36 AM | 54081 |
| Surr: Toluene-d8 | 99.5 | 70-130 | %Rec | 1 | 8/2/2020 9:01:36 AM | 54081 |

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

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 Quanitative 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 Limit

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Lab Order **2007E97**

Date Reported: 8/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L5-2'

 Project:
 Mal jamar 15 Fed 1
 Collection Date: 7/23/2020 8:50:00 AM

 Lab ID:
 2007E97-018
 Matrix: SOIL
 Received Date: 7/30/2020 9:25:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|---|--------|----------|------------|----|---------------------|--------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | : CAS |
| Chloride | ND | 60 | mg/Kg | 20 | 8/3/2020 8:39:29 PM | 54139 |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | Analyst | : DJF |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 8/2/2020 9:30:05 AM | 54081 |
| Surr: BFB | 102 | 70-130 | %Rec | 1 | 8/2/2020 9:30:05 AM | 54081 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | NICS | | | | Analyst | :: CLP |
| Diesel Range Organics (DRO) | 22 | 9.6 | mg/Kg | 1 | 8/3/2020 8:49:21 PM | 54135 |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 8/3/2020 8:49:21 PM | 54135 |
| Surr: DNOP | 103 | 30.4-154 | %Rec | 1 | 8/3/2020 8:49:21 PM | 54135 |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | Analyst | : DJF |
| Benzene | ND | 0.024 | mg/Kg | 1 | 8/2/2020 9:30:05 AM | 54081 |
| Toluene | ND | 0.048 | mg/Kg | 1 | 8/2/2020 9:30:05 AM | 54081 |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 8/2/2020 9:30:05 AM | 54081 |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 8/2/2020 9:30:05 AM | 54081 |
| Surr: 1,2-Dichloroethane-d4 | 97.9 | 70-130 | %Rec | 1 | 8/2/2020 9:30:05 AM | 54081 |
| Surr: 4-Bromofluorobenzene | 98.9 | 70-130 | %Rec | 1 | 8/2/2020 9:30:05 AM | 54081 |
| Surr: Dibromofluoromethane | 107 | 70-130 | %Rec | 1 | 8/2/2020 9:30:05 AM | 54081 |
| Surr: Toluene-d8 | 104 | 70-130 | %Rec | 1 | 8/2/2020 9:30:05 AM | 54081 |

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

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 Limit

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Hall Environmental Analysis Laboratory, Inc.

2007E97 05-Aug-20

WO#:

Client: Souder, Miller & Associates

Project: Mal jamar 15 Fed 1

Sample ID: MB-54139 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 54139 RunNo: 70812

Prep Date: 8/3/2020 Analysis Date: 8/3/2020 SeqNo: 2465249 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-54139 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 54139 RunNo: 70812

Prep Date: 8/3/2020 Analysis Date: 8/3/2020 SeqNo: 2465250 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.0 90 110

Sample ID: MB-54133 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 54133 RunNo: 70785

Prep Date: **8/3/2020** Analysis Date: **8/3/2020** SeqNo: **2465333** Units: **mg/Kg**

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-54133 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 54133 RunNo: 70785

Prep Date: 8/3/2020 Analysis Date: 8/3/2020 SeqNo: 2465334 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 91.4 90 110

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 Quanitative 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 Limit

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Hall Environmental Analysis Laboratory, Inc.

05-Aug-20

2007E97

WO#:

Client: Souder, Miller & Associates

Project: Mal jamar 15 Fed 1

Sample ID: MB-54086 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **PBS** Batch ID: **54086** RunNo: **70751**

Prep Date: 7/31/2020 Analysis Date: 7/31/2020 SeqNo: 2462385 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO) ND 10

Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 10 10.00 103 30.4 154

Sample ID: LCS-54086 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 54086 RunNo: 70751

Prep Date: 7/31/2020 Analysis Date: 7/31/2020 SeqNo: 2462386 Units: mg/Kg

Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 70 50 50.00 99.2 130 Surr: DNOP 4.7 5.000 93.4 30.4 154

Sample ID: MB-54113 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 54113 RunNo: 70780

Prep Date: 8/3/2020 Analysis Date: 8/3/2020 SeqNo: 2463386 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 9.6 10.00 96.0 30.4 154

Sample ID: LCS-54113 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 54113 RunNo: 70780

Prep Date: 8/3/2020 Analysis Date: 8/3/2020 SeqNo: 2463387 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 4.5 5.000 90.5 30.4 154

Sample ID: 2007E97-012AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **L6-1'** Batch ID: **54135** RunNo: **70780**

Prep Date: **8/3/2020** Analysis Date: **8/3/2020** SeqNo: **2464510** Units: **mg/Kg**

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual 9.7 Diesel Range Organics (DRO) 49 48.73 n 99.7 47.4 136

Surr: DNOP 4.7 4.873 95.5 30.4 154

Sample ID: 2007E97-012AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: L6-1' Batch ID: 54135 RunNo: 70780

Prep Date: **8/3/2020** Analysis Date: **8/3/2020** SeqNo: **2464511** Units: **mg/Kg**

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) 49 9.8 48.97 0 100 47.4 136 0.773 43.4

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 Limit

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Hall Environmental Analysis Laboratory, Inc.

4.7

WO#: **2007E97** *05-Aug-20*

Client: Souder, Miller & Associates

Project: Mal jamar 15 Fed 1

Surr: DNOP

Sample ID: 2007E97-012AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: L6-1' Batch ID: 54135 RunNo: 70780

Prep Date: 8/3/2020 Analysis Date: 8/3/2020 SeqNo: 2464511 Units: mg/Kg

4.897

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

95.8

30.4

0

154

0

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 Quanitative 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 Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2007E97** *05-Aug-20*

Client: Souder, Miller & Associates

Project: Mal jamar 15 Fed 1

Sample ID: mb-54080 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 54080 RunNo: 70777

Prep Date: **7/30/2020** Analysis Date: **8/2/2020** SeqNo: **2463182** 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 990 1000 98.8 75.3 105

Sample ID: Ics-54080 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 54080 RunNo: 70777

Prep Date: 7/30/2020 Analysis Date: 8/2/2020 SeqNo: 2463183 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 89.4 72.5 106 Surr: BFB 1100 75.3 105 S 1000 111

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 Quanitative 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 Limit

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Hall Environmental Analysis Laboratory, Inc.

1.0

WO#: **2007E97**

05-Aug-20

Client: Souder, Miller & Associates

Project: Mal jamar 15 Fed 1

Surr: 4-Bromofluorobenzene

Sample ID: mb-54080 SampType: MBLK TestCode: EPA Method 8021B: Volatiles PBS Client ID: RunNo: 70777 Batch ID: 54080 Units: mg/Kg Prep Date: 7/30/2020 Analysis Date: 8/2/2020 SeqNo: 2463261 PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Benzene ND 0.025 Toluene ND 0.050 ND 0.050 Ethylbenzene Xylenes, Total ND 0.10

104

80

120

SampType: LCS Sample ID: LCS-54080 TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 54080 RunNo: 70777 Units: mg/Kg Prep Date: 7/30/2020 Analysis Date: 8/2/2020 SeqNo: 2463262 PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.025 1.000 0 93.8 80 120 0.94 Benzene Toluene 0.95 0.050 1.000 0 95.1 80 120 96.7 0.050 0 80 120 Ethylbenzene 0.97 1.000 2.9 0.10 3.000 0 97.4 80 120 Xylenes, Total Surr: 4-Bromofluorobenzene 1.1 1.000 108 80 120

1.000

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 Quanitative 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 Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2007E97 05-Aug-20**

Client: Souder, Miller & Associates

Project: Mal jamar 15 Fed 1

| Sample ID: mb1 | SampT | уре: МЕ | BLK | Tes | tCode: El | PA Method | 8260B: Volat | iles Short | List | |
|-----------------------------|------------|-----------------|-----------|-------------|-----------------|-----------|--------------|------------|----------|------|
| Client ID: PBS | Batch | n ID: S7 | 0775 | F | RunNo: 7 | 0775 | | | | |
| Prep Date: | Analysis D | Date: 8/ | 1/2020 | 9 | SeqNo: 2 | 463032 | Units: %Red | : | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 1,2-Dichloroethane-d4 | 0.52 | | 0.5000 | | 104 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.51 | | 0.5000 | | 102 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.55 | | 0.5000 | | 110 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.50 | | 0.5000 | | 100 | 70 | 130 | | | |

| Sample ID: 100ng Ics | SampT | ype: LC | :S4 | Tes | tCode: El | PA Method | 8260B: Volat | iles Short | List | |
|-----------------------------|------------|----------------|-----------|-------------|-------------------|-----------|--------------|------------|----------|------|
| Client ID: BatchQC | Batch | ID: S7 | 0775 | R | RunNo: 7 0 | 0775 | | | | |
| Prep Date: | Analysis D | ate: 8/ | 1/2020 | S | SeqNo: 24 | 463033 | Units: %Rec | ; | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 1,2-Dichloroethane-d4 | 0.51 | | 0.5000 | | 102 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.51 | | 0.5000 | | 102 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.53 | | 0.5000 | | 107 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.51 | | 0.5000 | | 101 | 70 | 130 | | | |

| Sample ID: mb-54081 | SampT | уре: МЕ | BLK | Tes | tCode: El | PA Method | 8260B: Volat | iles Short | List | |
|-----------------------------|------------|-------------------|-----------|-------------|-------------------|-----------|--------------|------------|----------|------|
| Client ID: PBS | Batch | n ID: 540 | 081 | F | RunNo: 7 0 | 0775 | | | | |
| Prep Date: 7/30/2020 | Analysis D | oate: 8/ 2 | 2/2020 | 8 | SeqNo: 24 | 463058 | Units: mg/K | (g | | |
| 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: 1,2-Dichloroethane-d4 | 0.47 | | 0.5000 | | 94.6 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.50 | | 0.5000 | | 101 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.51 | | 0.5000 | | 102 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.50 | | 0.5000 | | 99.0 | 70 | 130 | | | |

| Sample ID: Ics-54081 | SampT | ype: LC | S4 | Tes | tCode: El | PA Method | 8260B: Volat | iles Short | List | |
|-----------------------------|------------|-------------------|-----------|-------------|-----------|-----------|--------------|------------|----------|------|
| Client ID: BatchQC | Batcl | n ID: 540 | 081 | F | RunNo: 7 | 0775 | | | | |
| Prep Date: 7/30/2020 | Analysis D | Date: 8/ 2 | 2/2020 | 9 | SeqNo: 2 | 463059 | Units: mg/K | ζg | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.97 | 0.025 | 1.000 | 0 | 96.5 | 80 | 120 | • | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 99.9 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 102 | 80 | 120 | | | |
| Xylenes, Total | 3.2 | 0.10 | 3.000 | 0 | 107 | 80 | 120 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.51 | | 0.5000 | | 101 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.51 | | 0.5000 | | 102 | 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 Quanitative 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 Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2007E97**

05-Aug-20

Client: Souder, Miller & Associates

Project: Mal jamar 15 Fed 1

Sample ID: Ics-54081 SampType: LCS4 TestCode: EPA Method 8260B: Volatiles Short List

Client ID: BatchQC Batch ID: 54081 RunNo: 70775

Prep Date: **7/30/2020** Analysis Date: **8/2/2020** SeqNo: **2463059** Units: **mg/Kg**

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Surr: Dibromofluoromethane 0.54 0.5000 108 70 130 Surr: Toluene-d8 0.49 0.5000 98.0 70 130

Sample ID: 2007e97-013ams SampType: MS4 TestCode: EPA Method 8260B: Volatiles Short List

Client ID: L7-Surface Batch ID: 54081 RunNo: 70775

Prep Date: 7/30/2020 Analysis Date: 8/2/2020 SegNo: 2463061 Units: mg/Kg

| Prep Date: 7/30/2020 | Analysis L | Jate: 8/ . | 2/2020 | ٤ | seqNo: 24 | 463061 | Units: mg/K | (g | | |
|-----------------------------|------------|-------------------|-----------|-------------|-----------|----------|-------------|------|----------|------|
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.94 | 0.025 | 0.9940 | 0 | 94.8 | 71.1 | 115 | | | |
| Toluene | 0.97 | 0.050 | 0.9940 | 0 | 97.2 | 79.6 | 132 | | | |
| Ethylbenzene | 1.0 | 0.050 | 0.9940 | 0 | 101 | 83.8 | 134 | | | |
| Xylenes, Total | 3.1 | 0.099 | 2.982 | 0 | 106 | 82.4 | 132 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.50 | | 0.4970 | | 100 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.48 | | 0.4970 | | 95.8 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.54 | | 0.4970 | | 108 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.50 | | 0.4970 | | 99.7 | 70 | 130 | | | |

Sample ID: 2007e97-013amsd SampType: MSD4 TestCode: EPA Method 8260B: Volatiles Short List

Client ID: L7-Surface Batch ID: 54081 RunNo: 70775

Prep Date: 7/30/2020 Analysis Date: 8/2/2020 SeqNo: 2463062 Units: mg/Kg

0.5000

| Analysis L |)ate: 8/ | 2/2020 | 3 | seqino: 2 | 463062 | Units: mg/K | g | | |
|------------|---|---|--|--|---|---|---|---|--|
| Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 0.94 | 0.025 | 0.9911 | 0 | 94.5 | 71.1 | 115 | 0.615 | 20 | |
| 1.0 | 0.050 | 0.9911 | 0 | 105 | 79.6 | 132 | 7.75 | 20 | |
| 1.0 | 0.050 | 0.9911 | 0 | 105 | 83.8 | 134 | 3.55 | 20 | |
| 3.4 | 0.099 | 2.973 | 0 | 113 | 82.4 | 132 | 6.87 | 20 | |
| 0.50 | | 0.4955 | | 101 | 70 | 130 | 0 | 0 | |
| 0.48 | | 0.4955 | | 97.3 | 70 | 130 | 0 | 0 | |
| 0.51 | | 0.4955 | | 103 | 70 | 130 | 0 | 0 | |
| 0.51 | | 0.4955 | | 102 | 70 | 130 | 0 | 0 | |
| | Result 0.94 1.0 1.0 3.4 0.50 0.48 0.51 | Result PQL 0.94 0.025 1.0 0.050 1.0 0.050 3.4 0.099 0.50 0.48 0.51 | Result PQL SPK value 0.94 0.025 0.9911 1.0 0.050 0.9911 1.0 0.050 0.9911 3.4 0.099 2.973 0.50 0.4955 0.48 0.4955 0.51 0.4955 | Result PQL SPK value SPK Ref Val 0.94 0.025 0.9911 0 1.0 0.050 0.9911 0 1.0 0.050 0.9911 0 3.4 0.099 2.973 0 0.50 0.4955 0.48 0.4955 0.51 0.4955 | Result PQL SPK value SPK Ref Val %REC 0.94 0.025 0.9911 0 94.5 1.0 0.050 0.9911 0 105 1.0 0.050 0.9911 0 105 3.4 0.099 2.973 0 113 0.50 0.4955 101 0.48 0.4955 97.3 0.51 0.4955 103 | Result PQL SPK value SPK Ref Val %REC LowLimit 0.94 0.025 0.9911 0 94.5 71.1 1.0 0.050 0.9911 0 105 79.6 1.0 0.050 0.9911 0 105 83.8 3.4 0.099 2.973 0 113 82.4 0.50 0.4955 101 70 0.48 0.4955 97.3 70 0.51 0.4955 103 70 | Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit 0.94 0.025 0.9911 0 94.5 71.1 115 1.0 0.050 0.9911 0 105 79.6 132 1.0 0.050 0.9911 0 105 83.8 134 3.4 0.099 2.973 0 113 82.4 132 0.50 0.4955 101 70 130 0.48 0.4955 97.3 70 130 0.51 0.4955 103 70 130 | Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD 0.94 0.025 0.9911 0 94.5 71.1 115 0.615 1.0 0.050 0.9911 0 105 79.6 132 7.75 1.0 0.050 0.9911 0 105 83.8 134 3.55 3.4 0.099 2.973 0 113 82.4 132 6.87 0.50 0.4955 101 70 130 0 0.48 0.4955 97.3 70 130 0 0.51 0.4955 103 70 130 0 | Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit 0.94 0.025 0.9911 0 94.5 71.1 115 0.615 20 1.0 0.050 0.9911 0 105 79.6 132 7.75 20 1.0 0.050 0.9911 0 105 83.8 134 3.55 20 3.4 0.099 2.973 0 113 82.4 132 6.87 20 0.50 0.4955 101 70 130 0 0 0.48 0.4955 97.3 70 130 0 0 0.51 0.4955 103 70 130 0 0 |

| Sample ID: mb1 | SampT | ype: ME | BLK | Tes | tCode: El | PA Method | 8260B: Volat | iles Short | List | |
|-----------------------------|------------|-----------------|-----------|-------------|-----------------|-----------|--------------|------------|----------|------|
| Client ID: PBS | Batch | n ID: S7 | 0783 | F | RunNo: 7 | 0783 | | | | |
| Prep Date: | Analysis D | ate: 8/ | /2/2020 | S | SeqNo: 2 | 463614 | Units: %Red | C | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 1,2-Dichloroethane-d4 | 0.48 | | 0.5000 | | 96.6 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.49 | | 0.5000 | | 98.5 | 70 | 130 | | | |
| | | | | | | | | | | |

Qualifiers:

Surr: Toluene-d8

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

0.50

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

101

70

130

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

0.49

2007E97 05-Aug-20

WO#:

Client: Souder, Miller & Associates

Project: Mal jamar 15 Fed 1

Surr: Toluene-d8

Sample ID: 100ng lcs SampType: LCS4 TestCode: EPA Method 8260B: Volatiles Short List Client ID: BatchQC Batch ID: **\$70783** RunNo: 70783 Prep Date: Analysis Date: 8/2/2020 SeqNo: 2463615 Units: %Rec Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: 1,2-Dichloroethane-d4 0.50 0.5000 101 70 130 Surr: 4-Bromofluorobenzene 0.51 0.5000 103 70 130 Surr: Dibromofluoromethane 0.56 0.5000 112 70 130

98.0

70

130

0.5000

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 Quanitative 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 Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2007E97**

05-Aug-20

Client: Souder, Miller & Associates

Project: Mal jamar 15 Fed 1

Sample ID: mb1 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: G70775 RunNo: 70775

Prep Date: Analysis Date: 8/1/2020 SegNo: 2463070 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 510 500.0 103 70 130

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: G70775 RunNo: 70775

Prep Date: Analysis Date: 8/1/2020 SeqNo: 2463071 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 500 500.0 99.7 70 130

Sample ID: mb-54081 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 54081 RunNo: 70775

Prep Date: 7/30/2020 Analysis Date: 8/2/2020 SeqNo: 2463097 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 500 500.0 99.8 70 130

Sample ID: Ics-54081 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 54081 RunNo: 70775

Prep Date: 7/30/2020 Analysis Date: 8/2/2020 SeqNo: 2463098 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result I owl imit Qual 22 5.0 25.00 89.4 70 130

 Gasoline Range Organics (GRO)
 22
 5.0
 25.00
 0
 89.4
 70
 130

 Surr: BFB
 480
 500.0
 96.5
 70
 130

Sample ID: 2007e97-014ams SampType: MS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: L7-1' Batch ID: 54081 RunNo: 70775

Prep Date: 7/30/2020 Analysis Date: 8/2/2020 SeqNo: 2463101 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) 21 4.9 24.44 0 86.0 49.2 122

 Gasoline Range Organics (GRO)
 21
 4.9
 24.44
 0
 86.0
 49.2
 122

 Surr: BFB
 480
 488.8
 98.5
 70
 130

Sample ID: 2007e97-014amsd SampType: MSD TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: L7-1' Batch ID: 54081 RunNo: 70775

Prep Date: **7/30/2020** Analysis Date: **8/2/2020** SeqNo: **2463102** Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 49.2 20 20 4.8 24.11 0 83.0 122 4.91

Surr: BFB 450 482.2 93.0 70 130 0 0

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 Quanitative 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 Limit

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Hall Environmental Analysis Laboratory, Inc.

490

WO#: 2007E97

05-Aug-20

Client: Souder, Miller & Associates

Project: Mal jamar 15 Fed 1

Sample ID: mb1 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: **G70783** RunNo: 70783

Prep Date: Analysis Date: 8/2/2020 SeqNo: 2463638 Units: %Rec

Analyte SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Result LowLimit

98.0

70

130

Surr: BFB 500.0

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: **G70783** RunNo: 70783

SeqNo: 2463639 Prep Date: Analysis Date: 8/2/2020 Units: %Rec

SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result HighLimit Qual

Surr: BFB 510 500.0 103 130

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 28 of 28



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

Sample Log-In Check List

| | | weosite: ciients | s.natienvironmenta | i.com | | |
|--------------------------------------|---|--|--------------------------------------|------------|----------------------------|------------------|
| Client Name: | Souder, Miller & Associates | Work Order Numb | per: 2007E97 | | RcptNo: | 1 |
| Received By: | Cheyenne Cason | 7/30/2020 9:25:00 / | AM | | | |
| Completed By: | Juan Rojas | 7/30/2020 9:41:50 | AM | Hanay | - | |
| Reviewed By: | DAD 7/30/5 | 20 | | · | | |
| Chain of Cus | <u>stody</u> | | | | | |
| 1. Is Chain of C | ustody complete? | | Yes 🗹 | No 🗌 | Not Present | |
| 2. How was the | sample delivered? | | <u>Courier</u> | | | |
| Log In | ant made to anal the comm | slee? | Yes 🗹 | No 🗆 | NA 🗆 | |
| o. vvas an allen | npt made to cool the samp | oies? | Yes <u>▼</u> | INU L | NA 🗀 | |
| 4. Were all samp | ples received at a tempera | ature of >0° C to 6.0°C | Yes 🗸 | No 🗆 | NA 🗆 | |
| 5. Sample(s) in | proper container(s)? | | Yes 🔽 | No 🗌 | | |
| 6. Sufficient sam | nple volume for indicated t | est(s)? | Yes 🗹 | No 🗆 | | |
| 7. Are samples (| (except VOA and ONG) pr | operly preserved? | Yes 🗹 | No 🗌 | | |
| 8. Was preserva | ative added to bottles? | | Yes 🗌 | No 🔽 | NA 🗔 | |
| 9. Received at le | east 1 vial with headspace | <1/4" for AQ VOA? | Yes 🗌 | No 🗌 | NA 🗹 | |
| 0. Were any sar | mple containers received t | oroken? | Yes | No 🗹 | # of preserved | |
| | ork match bottle labels? ancies on chain of custody | r) | Yes 🗹 | No 🗆 | bottles checked for pH: | 12 unless noted) |
| 2. Are matrices of | correctly identified on Cha | in of Custody? | Yes 🗹 | No 🗆 | Adjusted2 | |
| 3, Is it clear wha | t analyses were requested | 1? | Yes 🗹 | No 🗆 | | |
| | ing times able to be met? sustomer for authorization.) | 1 | Yes 🗹 | No 🗌 | Checked by: | PA 7.30. R |
| pecial Handl | ling (if applicable) | | | | | |
| 15. Was client no | otified of all discrepancies | with this order? | Yes 🗌 | No 🗆 | NA 🗹 | |
| Person | Notified: AShley | MW Well Date | 72920 | | | |
| By Who | | Via: | 1 ' | ⊃hone | ☐ In Person | |
| Regard | ling: -extra so | umple NOt on COC | -added an | id poucele | 1 ZM AWITH AS | hey |
| Client II | nstructions: | ************************************** | A | | | . 27 |
| 16. Additional re | marks: | | | | | |
| 17. <u>Cooler Infor</u> Cooler No | CONTRACTOR OF THE PARTY OF THE | Seal Intact Seal No | Seal Date | Signed By | | |
| 1 | 3.4 Good | Marketing of the state of the s | gyaro (C. Car. — satemanisada (C.S.) | | | |

| eceive | , i | _ | D: 10 | /19/2 | 2020 | 8:0 | 6:58 | AM | ſ | | | | | | | | | | | | | | | | | P | age 6 | 3 ој |
|-------------------------|---|---------------------------|-----------------------|-------------------|------------------|-----------------|---------------------------------------|-----------------------------|--------------------|---------|--------------|----------------------------|-------------------------|-----------|-------|------------|-------|------------|-------|------------|-------|------------|-------|-------------|----------|-----------------|------------------|------------|
| | ANALYSTS LABORATORY | | 7109 | 7 | | | | | | | | | | | | | | | | | | | - | | | | | |
| | ABO | www.hallenvironmental.com | Albuquerque, NM 87109 | Fax 505-345-4107 | quest | (Ju | ıəsqı | A∖tn | | | | | Total C | | | | | | | | | | | | | | | |
| 5 | ַצַ ל | n d | nergi | . 20 . 20 | Analysis Request | | | | (| ΑΟ | | | /) 0828 2) 0728 | | | | | | | | | | | | <u> </u> | | | |
| | ֓֞֞֓֞֓֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֡֓֡֓֡֓֡ | u Sir | Albuc | Fa | ıalysi | †O | S '†(| Эа ' | ZON | ,£(| | | (C)F, E | • | | | | | | | | | | | | | <i>C</i> | |
| | | halled | , | | An | | | | | | | | AROR | | | | | | | | | | - | | | (| 76/27 | |
| | ANE | WWW. | 4901 Hawkins NE | Tel. 505-345-3975 | | | SW | ISO. | 728 | 10 O | ıε | 8 y | a sHAq | | | | | | | | | | | | | ے ا | 3 | |
| | L Q | ı | ławk | 05-34 | | | | | | | | | EDB (N | | | | | | | | | | | | |] . | Q 11 40 | |
| | | | 901 F | el. 5 | | | | | | | | | 9 1808 | | | | | | | | | | | | | (8. | <u>.</u> | |
| | | | 4 | _ | | | | | | | | | 08:H9T | | | | | | | | | | | | | Remarks | B, | |
| | | <u> </u> | | <u> </u> | | (1 | ~208 |) 2'F | TMF | / ± | | \supset | | × | | | | _ | | | | | _ | | 匚 | 쮼 | _ | |
| | n 3 day | | 15 Fed 1 | | | | | ve(i | | _ No | | ე,) ීh'S ≈ O∓h'; | HEAL No. | ~60(| 200- | 50V- | -00d | 7007 | 2002 | -007 | -Co8 | 6001 | 010- | -011 | 210- | Date Time | Date Time | 30/20 6925 |
| l Time: | d Kush | (e: | jamar | | | ager: | | V Maxwel | $\epsilon_{\rm N}$ | Yes | : K | \sim | Preservative Type | Cool | | | | | | | | | | | | Via: | Via | 12 miles |
| Turn-Around Time: | □ Standard | Project Name: | Mal | | ı | Project Manager | · · · · · · · · · · · · · · · · · · · | Aspley | Sampler: | On loe: | # of Coolers | Cooler Temp(including CF). | Container Type and # | 402 | | | | | | | | | | | | Received by: | Received by: | Car / |
| Chain-of-Custody Record | | | | | | | | ☐ Level 4 (Full Validation) | npliance | | 1 | | Sample Name | U-Surface | 11-11 | t2-Sortace | 12-11 | 13-Surface | 13-11 | L4-Surface | にオートゥ | 15-Surface | 15-11 | ilo-Surface | 1-9-1 | Land Show | | |
| of-Cu | H | | | | | | | | ☐ Az Compliance | □ Other | | | Matrix | Seil | | | | | | | | | | | | Relinquished by | Relinquished by: | 1 |
| hain | NS | | Mailing Address: | | #: | r Fax#: | QA/QC Package: | dard | tation: | ر ا | □ EDD (1ype) | | Time | Q : 00 | 8:05 | 80:8 | 8:10 | 8.15 | 8:30 | 8:25 | 8:35 | 0;r;0 | 8:48 | 85:8 | g:05 | Time: | Time: | (10) 02 |
| J | Client: | | Mailing | | Phone #: | email or Fax#: | QA/QC | ☑ Standard | Accreditation: | □ NELAC | | | Date | | | | | | | | | | | | | Date: | Dafe: | 77 Z |

| | . > | • | D: 10/ | /19/2 | 2020 | 8:0 | 06:58 AN | | | | - | | | | | | | | | | | | Po | nge 64 o | |
|-------------------------|--------------|---------------------------|---|-------------------------------|----------|------------------|--|--------------------------------|---------------------------|---------------------------------------|---|--|------------------------------|-------------------------------|-------|-----------------|-----------------|----------------|-----------------|-----------|--|--|------------------------|------------------------------|-------|
| HALL ENVIDONMENTAL | | www hallenvironmental com | 4901 Hawkins NE - Albuquerque, NM 87109 | 505-345-3975 Fax 505-345-4107 | Analysis | | SMISO PO4, SO | ر) اککار (۱) | .004. 3 10 6 7 N | 10 tals 10 ₃ | etho y 83 Me r, <i>h</i> OA) | M) 80 2d sH, 8 AЯ: 8 ,ㅋ{ V) 06 | 85. BC BC ED | | | | | | | | | | | Prill to Bord | 70/ X |
| | | | 4901 | Tel. | | | ,s (8021 O / MRC | ЯQ | / 0 | สอ) |)(]SI | ∙08:H | dТ | | | | | -) | | | | | Remarks: | Nie | V |
| Turn-Around Time: | □ Standard | Project Name: | Malsamar 15 Fed 1 | # : | | Project Manager: | Maxwell | | oN □ No | · · · · · · · · · · · · · · · · · · · | Cooler Temp(including cF): $3\mathcal{M}\mathcal{L}_{\mathcal{O}}$ $=$ $3\mathcal{M}_{\mathcal{C}}$ | live HEAL No. | 7007t17 | Jr. | 3 | 200 | 310- | +10- | ×10 - | | | | Via: Pate Time | 1 1 | 1 |
| Chain-of-Custody Record | Client: SNJA | | Mailing Address: | | Phone #: | email or Fax#: | QA/QC Package: ☑ Standard □ Level 4 (Full Validation) | Accreditation: Az Compliance | □ Other | | | | Date Time Matrix Sample Name | 7/23/20 9:15 Soil 67-50 rfees | 11-11 | 9:36 18-Surface | 9:48 La-sortace | 7 | them 0x50 1.5-2 | 16 7/30/2 | | | Time: Relinquished by: | Date: Time: Relinquished by: | |



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

September 16, 2020

Ashley Maxwell Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-8801

FAX

RE: Maljamar 15 50 OrderNo.: 2009562

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 11 sample(s) on 9/10/2020 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,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **2009562**Date Reported: **9/16/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW1

 Project:
 Maljamar 15 50
 Collection Date: 9/8/2020 9:05:00 AM

 Lab ID:
 2009562-001
 Matrix: SOIL
 Received Date: 9/10/2020 8:00:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | : JMT |
| Chloride | ND | 60 | mg/Kg | 20 | 9/15/2020 9:29:56 AM | 55161 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst | BRM |
| Diesel Range Organics (DRO) | ND | 9.7 | mg/Kg | 1 | 9/11/2020 5:13:21 PM | 55083 |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 9/11/2020 5:13:21 PM | 55083 |
| Surr: DNOP | 127 | 30.4-154 | %Rec | 1 | 9/11/2020 5:13:21 PM | 55083 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | : NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 9/14/2020 3:12:48 PM | 55080 |
| Surr: BFB | 91.2 | 75.3-105 | %Rec | 1 | 9/14/2020 3:12:48 PM | 55080 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB |
| Benzene | ND | 0.025 | mg/Kg | 1 | 9/14/2020 3:12:48 PM | 55080 |
| Toluene | ND | 0.050 | mg/Kg | 1 | 9/14/2020 3:12:48 PM | 55080 |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 9/14/2020 3:12:48 PM | 55080 |
| Xylenes, Total | ND | 0.10 | mg/Kg | 1 | 9/14/2020 3:12:48 PM | 55080 |
| Surr: 4-Bromofluorobenzene | 96.5 | 80-120 | %Rec | 1 | 9/14/2020 3:12:48 PM | 55080 |

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

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 Quanitative Limit

- 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 Limit

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Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW2

 Project:
 Maljamar 15 50
 Collection Date: 9/8/2020 9:10:00 AM

 Lab ID:
 2009562-002
 Matrix: SOIL
 Received Date: 9/10/2020 8:00:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | : JMT |
| Chloride | ND | 60 | mg/Kg | 20 | 9/15/2020 10:07:10 AM | 55161 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst | BRM |
| Diesel Range Organics (DRO) | ND | 9.5 | mg/Kg | 1 | 9/11/2020 5:23:10 PM | 55083 |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 9/11/2020 5:23:10 PM | 55083 |
| Surr: DNOP | 104 | 30.4-154 | %Rec | 1 | 9/11/2020 5:23:10 PM | 55083 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | : NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 9/14/2020 3:36:12 PM | 55080 |
| Surr: BFB | 92.8 | 75.3-105 | %Rec | 1 | 9/14/2020 3:36:12 PM | 55080 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB |
| Benzene | ND | 0.024 | mg/Kg | 1 | 9/14/2020 3:36:12 PM | 55080 |
| Toluene | ND | 0.049 | mg/Kg | 1 | 9/14/2020 3:36:12 PM | 55080 |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 9/14/2020 3:36:12 PM | 55080 |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 9/14/2020 3:36:12 PM | 55080 |
| Surr: 4-Bromofluorobenzene | 98.9 | 80-120 | %Rec | 1 | 9/14/2020 3:36:12 PM | 55080 |

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

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 Quanitative Limit

- 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 Limit

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Project:

Lab ID:

CLIENT: Souder, Miller & Associates

Maljamar 15 50 2009562-003

Analytical Report

Lab Order **2009562**Date Reported: **9/16/2020**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SW3

Collection Date: 9/8/2020 9:15:00 AM

Received Date: 9/10/2020 8:00:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | : JMT |
| Chloride | ND | 60 | mg/Kg | 20 | 9/15/2020 10:19:34 AM | 55161 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst | BRM |
| Diesel Range Organics (DRO) | ND | 9.7 | mg/Kg | 1 | 9/11/2020 5:33:00 PM | 55083 |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 9/11/2020 5:33:00 PM | 55083 |
| Surr: DNOP | 103 | 30.4-154 | %Rec | 1 | 9/11/2020 5:33:00 PM | 55083 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | : NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 9/14/2020 3:59:41 PM | 55080 |
| Surr: BFB | 95.1 | 75.3-105 | %Rec | 1 | 9/14/2020 3:59:41 PM | 55080 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB |
| Benzene | ND | 0.025 | mg/Kg | 1 | 9/14/2020 3:59:41 PM | 55080 |
| Toluene | ND | 0.050 | mg/Kg | 1 | 9/14/2020 3:59:41 PM | 55080 |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 9/14/2020 3:59:41 PM | 55080 |
| Xylenes, Total | ND | 0.10 | mg/Kg | 1 | 9/14/2020 3:59:41 PM | 55080 |
| Surr: 4-Bromofluorobenzene | 98.7 | 80-120 | %Rec | 1 | 9/14/2020 3:59:41 PM | 55080 |

Matrix: SOIL

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

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 Quanitative 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 Limit

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Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW4

 Project:
 Maljamar 15 50
 Collection Date: 9/8/2020 9:20:00 AM

 Lab ID:
 2009562-004
 Matrix: SOIL
 Received Date: 9/10/2020 8:00:00 AM

| Analyses | Result | RL (| Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | : JMT |
| Chloride | ND | 60 | mg/Kg | 20 | 9/15/2020 10:31:58 AM | 55161 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst | BRM |
| Diesel Range Organics (DRO) | ND | 9.6 | mg/Kg | 1 | 9/11/2020 5:42:54 PM | 55083 |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 9/11/2020 5:42:54 PM | 55083 |
| Surr: DNOP | 106 | 30.4-154 | %Rec | 1 | 9/11/2020 5:42:54 PM | 55083 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | : NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 9/14/2020 4:23:19 PM | 55080 |
| Surr: BFB | 91.6 | 75.3-105 | %Rec | 1 | 9/14/2020 4:23:19 PM | 55080 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB |
| Benzene | ND | 0.024 | mg/Kg | 1 | 9/14/2020 4:23:19 PM | 55080 |
| Toluene | ND | 0.049 | mg/Kg | 1 | 9/14/2020 4:23:19 PM | 55080 |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 9/14/2020 4:23:19 PM | 55080 |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 9/14/2020 4:23:19 PM | 55080 |
| Surr: 4-Bromofluorobenzene | 97.0 | 80-120 | %Rec | 1 | 9/14/2020 4:23:19 PM | 55080 |

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

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 Quanitative 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 Limit

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Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW5

 Project:
 Maljamar 15 50
 Collection Date: 9/8/2020 9:35:00 AM

 Lab ID:
 2009562-005
 Matrix: SOIL
 Received Date: 9/10/2020 8:00:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|---|--------|----------|------------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | JMT |
| Chloride | ND | 60 | mg/Kg | 20 | 9/15/2020 10:44:23 AM | 55161 |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | Analyst | DJF |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 9/11/2020 8:50:12 PM | 55088 |
| Surr: BFB | 101 | 70-130 | %Rec | 1 | 9/11/2020 8:50:12 PM | 55088 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | NICS | | | | Analyst | BRM |
| Diesel Range Organics (DRO) | ND | 9.1 | mg/Kg | 1 | 9/11/2020 3:49:19 PM | 55091 |
| Motor Oil Range Organics (MRO) | ND | 46 | mg/Kg | 1 | 9/11/2020 3:49:19 PM | 55091 |
| Surr: DNOP | 107 | 30.4-154 | %Rec | 1 | 9/11/2020 3:49:19 PM | 55091 |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | Analyst | DJF |
| Benzene | ND | 0.025 | mg/Kg | 1 | 9/11/2020 8:50:12 PM | 55088 |
| Toluene | ND | 0.050 | mg/Kg | 1 | 9/11/2020 8:50:12 PM | 55088 |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 9/11/2020 8:50:12 PM | 55088 |
| Xylenes, Total | ND | 0.10 | mg/Kg | 1 | 9/11/2020 8:50:12 PM | 55088 |
| Surr: 1,2-Dichloroethane-d4 | 89.9 | 70-130 | %Rec | 1 | 9/11/2020 8:50:12 PM | 55088 |
| Surr: 4-Bromofluorobenzene | 101 | 70-130 | %Rec | 1 | 9/11/2020 8:50:12 PM | 55088 |
| Surr: Dibromofluoromethane | 106 | 70-130 | %Rec | 1 | 9/11/2020 8:50:12 PM | 55088 |
| Surr: Toluene-d8 | 100 | 70-130 | %Rec | 1 | 9/11/2020 8:50:12 PM | 55088 |

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

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 Quanitative Limit

- 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 Limit

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Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW6

 Project:
 Maljamar 15 50
 Collection Date: 9/8/2020 9:40:00 AM

 Lab ID:
 2009562-006
 Matrix: SOIL
 Received Date: 9/10/2020 8:00:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|---|--------|----------|------------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | : JMT |
| Chloride | ND | 60 | mg/Kg | 20 | 9/15/2020 11:21:35 AM | 55161 |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | Analyst | DJF |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 9/11/2020 10:15:41 PM | 55088 |
| Surr: BFB | 99.9 | 70-130 | %Rec | 1 | 9/11/2020 10:15:41 PM | 55088 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | NICS | | | | Analyst | BRM |
| Diesel Range Organics (DRO) | ND | 9.6 | mg/Kg | 1 | 9/11/2020 4:13:22 PM | 55091 |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 9/11/2020 4:13:22 PM | 55091 |
| Surr: DNOP | 96.1 | 30.4-154 | %Rec | 1 | 9/11/2020 4:13:22 PM | 55091 |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | Analyst | : DJF |
| Benzene | ND | 0.025 | mg/Kg | 1 | 9/11/2020 10:15:41 PM | 55088 |
| Toluene | ND | 0.050 | mg/Kg | 1 | 9/11/2020 10:15:41 PM | 55088 |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 9/11/2020 10:15:41 PM | 55088 |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 9/11/2020 10:15:41 PM | 55088 |
| Surr: 1,2-Dichloroethane-d4 | 93.2 | 70-130 | %Rec | 1 | 9/11/2020 10:15:41 PM | 55088 |
| Surr: 4-Bromofluorobenzene | 99.5 | 70-130 | %Rec | 1 | 9/11/2020 10:15:41 PM | 55088 |
| Surr: Dibromofluoromethane | 107 | 70-130 | %Rec | 1 | 9/11/2020 10:15:41 PM | 55088 |
| Surr: Toluene-d8 | 103 | 70-130 | %Rec | 1 | 9/11/2020 10:15:41 PM | 55088 |

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

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 Quanitative 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 Limit

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Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Maljamar 15 50

Lab ID:

2009562-007

Client Sample ID: SW7

Collection Date: 9/8/2020 9:45:00 AM Received Date: 9/10/2020 8:00:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|---|--------|----------|------------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | : JMT |
| Chloride | ND | 59 | mg/Kg | 20 | 9/15/2020 11:34:00 AM | 55161 |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | Analyst | DJF |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 9/12/2020 1:35:07 AM | 55088 |
| Surr: BFB | 98.0 | 70-130 | %Rec | 1 | 9/12/2020 1:35:07 AM | 55088 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | NICS | | | | Analyst | BRM |
| Diesel Range Organics (DRO) | ND | 8.6 | mg/Kg | 1 | 9/11/2020 4:37:39 PM | 55091 |
| Motor Oil Range Organics (MRO) | ND | 43 | mg/Kg | 1 | 9/11/2020 4:37:39 PM | 55091 |
| Surr: DNOP | 106 | 30.4-154 | %Rec | 1 | 9/11/2020 4:37:39 PM | 55091 |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | Analyst | : DJF |
| Benzene | ND | 0.025 | mg/Kg | 1 | 9/12/2020 1:35:07 AM | 55088 |
| Toluene | ND | 0.050 | mg/Kg | 1 | 9/12/2020 1:35:07 AM | 55088 |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 9/12/2020 1:35:07 AM | 55088 |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 9/12/2020 1:35:07 AM | 55088 |
| Surr: 1,2-Dichloroethane-d4 | 97.4 | 70-130 | %Rec | 1 | 9/12/2020 1:35:07 AM | 55088 |
| Surr: 4-Bromofluorobenzene | 101 | 70-130 | %Rec | 1 | 9/12/2020 1:35:07 AM | 55088 |
| Surr: Dibromofluoromethane | 108 | 70-130 | %Rec | 1 | 9/12/2020 1:35:07 AM | 55088 |
| Surr: Toluene-d8 | 99.2 | 70-130 | %Rec | 1 | 9/12/2020 1:35:07 AM | 55088 |

Matrix: SOIL

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

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 Quanitative Limit

- 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 Limit

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Analytical Report Lab Order 2009562

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW8

 Project:
 Maljamar 15 50
 Collection Date: 9/8/2020 9:50:00 AM

 Lab ID:
 2009562-008
 Matrix: SOIL
 Received Date: 9/10/2020 8:00:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|---|--------|----------|------------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | JMT |
| Chloride | ND | 60 | mg/Kg | 20 | 9/15/2020 11:46:24 AM | 55161 |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | Analyst | DJF |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 9/12/2020 2:03:42 AM | 55088 |
| Surr: BFB | 97.7 | 70-130 | %Rec | 1 | 9/12/2020 2:03:42 AM | 55088 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | NICS | | | | Analyst | BRM |
| Diesel Range Organics (DRO) | ND | 9.6 | mg/Kg | 1 | 9/11/2020 5:01:49 PM | 55091 |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 9/11/2020 5:01:49 PM | 55091 |
| Surr: DNOP | 103 | 30.4-154 | %Rec | 1 | 9/11/2020 5:01:49 PM | 55091 |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | Analyst | DJF |
| Benzene | ND | 0.024 | mg/Kg | 1 | 9/12/2020 2:03:42 AM | 55088 |
| Toluene | ND | 0.047 | mg/Kg | 1 | 9/12/2020 2:03:42 AM | 55088 |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 9/12/2020 2:03:42 AM | 55088 |
| Xylenes, Total | ND | 0.094 | mg/Kg | 1 | 9/12/2020 2:03:42 AM | 55088 |
| Surr: 1,2-Dichloroethane-d4 | 94.5 | 70-130 | %Rec | 1 | 9/12/2020 2:03:42 AM | 55088 |
| Surr: 4-Bromofluorobenzene | 97.9 | 70-130 | %Rec | 1 | 9/12/2020 2:03:42 AM | 55088 |
| Surr: Dibromofluoromethane | 107 | 70-130 | %Rec | 1 | 9/12/2020 2:03:42 AM | 55088 |
| Surr: Toluene-d8 | 101 | 70-130 | %Rec | 1 | 9/12/2020 2:03:42 AM | 55088 |

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

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 Quanitative Limit

- 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 Limit

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Analytical Report Lab Order 2009562

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CS1

 Project:
 Maljamar 15 50
 Collection Date: 9/8/2020 9:25:00 AM

 Lab ID:
 2009562-009
 Matrix: SOIL
 Received Date: 9/10/2020 8:00:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--|--------|----------|------------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | : JMT |
| Chloride | ND | 60 | mg/Kg | 20 | 9/15/2020 11:58:49 AM | 55161 |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | Analyst | DJF |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 9/12/2020 2:32:13 AM | 55088 |
| Surr: BFB | 103 | 70-130 | %Rec | 1 | 9/12/2020 2:32:13 AM | 55088 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | NICS | | | | Analyst | BRM |
| Diesel Range Organics (DRO) | ND | 9.4 | mg/Kg | 1 | 9/11/2020 5:50:26 PM | 55091 |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 9/11/2020 5:50:26 PM | 55091 |
| Surr: DNOP | 89.3 | 30.4-154 | %Rec | 1 | 9/11/2020 5:50:26 PM | 55091 |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | Analyst | : DJF |
| Benzene | ND | 0.025 | mg/Kg | 1 | 9/12/2020 2:32:13 AM | 55088 |
| Toluene | ND | 0.050 | mg/Kg | 1 | 9/12/2020 2:32:13 AM | 55088 |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 9/12/2020 2:32:13 AM | 55088 |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 9/12/2020 2:32:13 AM | 55088 |
| Surr: 1,2-Dichloroethane-d4 | 94.0 | 70-130 | %Rec | 1 | 9/12/2020 2:32:13 AM | 55088 |
| Surr: 4-Bromofluorobenzene | 106 | 70-130 | %Rec | 1 | 9/12/2020 2:32:13 AM | 55088 |
| Surr: Dibromofluoromethane | 105 | 70-130 | %Rec | 1 | 9/12/2020 2:32:13 AM | 55088 |
| Surr: Toluene-d8 | 102 | 70-130 | %Rec | 1 | 9/12/2020 2:32:13 AM | 55088 |

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

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 Quanitative Limit

- 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 Limit

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Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

Analytical Report Lab Order 2009562

Client Sample ID: CS2

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

 Project:
 Maljamar 15 50
 Collection Date: 9/8/2020 9:30:00 AM

 Lab ID:
 2009562-010
 Matrix: SOIL
 Received Date: 9/10/2020 8:00:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 mg/Kg 20 9/15/2020 12:11:14 PM 55161 **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: **DJF** Gasoline Range Organics (GRO) ND 4.9 mg/Kg 9/12/2020 3:00:41 AM Surr: BFB 55088 104 70-130 %Rec 1 9/12/2020 3:00:41 AM **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) ND 9.8 mg/Kg 9/11/2020 6:14:49 PM 55091 Motor Oil Range Organics (MRO) ND 1 9/11/2020 6:14:49 PM 55091 49 mg/Kg Surr: DNOP 89.6 30.4-154 %Rec 9/11/2020 6:14:49 PM 55091 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: DJF ND 9/12/2020 3:00:41 AM Benzene 0.025 mg/Kg 55088 1 Toluene ND 0.049 mg/Kg 9/12/2020 3:00:41 AM 55088 Ethylbenzene ND 0.049 mg/Kg 1 9/12/2020 3:00:41 AM 55088 Xylenes, Total ND 0.099 mg/Kg 9/12/2020 3:00:41 AM 55088 Surr: 1,2-Dichloroethane-d4 93.7 70-130 %Rec 9/12/2020 3:00:41 AM 55088

106

107

101

70-130

70-130

70-130

%Rec

%Rec

%Rec

1

1

9/12/2020 3:00:41 AM

9/12/2020 3:00:41 AM

9/12/2020 3:00:41 AM

55088

55088

55088

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

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 Quanitative 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 Limit

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Analytical Report Lab Order 2009562

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CS3

 Project:
 Maljamar 15 50
 Collection Date: 9/8/2020 9:55:00 AM

 Lab ID:
 2009562-011
 Matrix: SOIL
 Received Date: 9/10/2020 8:00:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--|--------|----------|------------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | : JMT |
| Chloride | ND | 60 | mg/Kg | 20 | 9/15/2020 12:23:38 PM | 55161 |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | Analyst | DJF |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 9/12/2020 3:29:08 AM | 55088 |
| Surr: BFB | 102 | 70-130 | %Rec | 1 | 9/12/2020 3:29:08 AM | 55088 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | NICS | | | | Analyst | BRM |
| Diesel Range Organics (DRO) | ND | 9.6 | mg/Kg | 1 | 9/11/2020 6:39:06 PM | 55091 |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 9/11/2020 6:39:06 PM | 55091 |
| Surr: DNOP | 83.6 | 30.4-154 | %Rec | 1 | 9/11/2020 6:39:06 PM | 55091 |
| EPA METHOD 8260B: VOLATILES SHORT LIST | - | | | | Analyst | : DJF |
| Benzene | ND | 0.025 | mg/Kg | 1 | 9/12/2020 3:29:08 AM | 55088 |
| Toluene | ND | 0.050 | mg/Kg | 1 | 9/12/2020 3:29:08 AM | 55088 |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 9/12/2020 3:29:08 AM | 55088 |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 9/12/2020 3:29:08 AM | 55088 |
| Surr: 1,2-Dichloroethane-d4 | 91.8 | 70-130 | %Rec | 1 | 9/12/2020 3:29:08 AM | 55088 |
| Surr: 4-Bromofluorobenzene | 104 | 70-130 | %Rec | 1 | 9/12/2020 3:29:08 AM | 55088 |
| Surr: Dibromofluoromethane | 106 | 70-130 | %Rec | 1 | 9/12/2020 3:29:08 AM | 55088 |
| Surr: Toluene-d8 | 100 | 70-130 | %Rec | 1 | 9/12/2020 3:29:08 AM | 55088 |

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

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 Quanitative 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 Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2009562**

16-Sep-20

Client: Souder, Miller & Associates

Project: Maljamar 15 50

Sample ID: MB-55161 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 55161 RunNo: 71884

Prep Date: 9/15/2020 Analysis Date: 9/15/2020 SeqNo: 2516008 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-55161 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 55161 RunNo: 71884

Prep Date: 9/15/2020 Analysis Date: 9/15/2020 SeqNo: 2516009 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.1 90 110

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 Quanitative 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 Limit

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Hall Environmental Analysis Laboratory, Inc.

Analysis Date: 9/11/2020

PQL

10

50

10.00

Result

ND

ND

9.8

WO#: **2009562**

16-Sep-20

Client: Souder, Miller & Associates

Project: Maljamar 15 50

| Sample ID: LCS-55083 | SampTyp | e: LCS | | Tes | Code: EF | PA Method | 8015M/D: Die | esel Range | e Organics | · |
|--------------------------------|---------------|-------------------|----------|-------------|------------------|-----------|--------------|------------|------------|-------------|
| Client ID: LCSS | Batch ID | D: 55083 | | F | unNo: 7 ′ | 1804 | | | | |
| Prep Date: 9/10/2020 | Analysis Date | e: 9/11/ 2 | 2020 | S | eqNo: 2 | 512449 | Units: mg/k | (g | | |
| Analyte | Result F | PQL SI | PK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 54 | 10 | 50.00 | 0 | 107 | 70 | 130 | | | |
| Surr: DNOP | 5.0 | | 5.000 | | 99.7 | 30.4 | 154 | | | |
| Sample ID: MB-55083 | SampTyp | e: MBLK | (| Tes | Code: EF | PA Method | 8015M/D: Die | esel Range | e Organics | |
| Client ID: PBS | Batch ID | D: 55083 | i | F | unNo: 7 | 1804 | | | | |
| Prep Date: 9/10/2020 | Analysis Date | e: 9/11/ | 2020 | S | eqNo: 2 | 512450 | Units: mg/k | (g | | |
| Analyte | Result F | PQL SI | PK 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 | 11 | | 10.00 | | 109 | 30.4 | 154 | | | |
| Sample ID: LCS-55091 | SampTyp | e: LCS | | Tes | Code: EF | PA Method | 8015M/D: Die | esel Range | e Organics | |
| Client ID: LCSS | Batch ID | D: 55091 | | F | unNo: 7 | 1809 | | | | |
| Prep Date: 9/10/2020 | Analysis Date | e: 9/11/ 2 | 2020 | S | eqNo: 2 | 512603 | Units: mg/k | (g | | |
| Analyte | Result F | PQL SI | PK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 56 | 10 | 50.00 | 0 | 112 | 70 | 130 | | | |
| Surr: DNOP | 5.3 | | 5.000 | | 105 | 30.4 | 154 | | | |
| Sample ID: MB-55091 | SampTyp | e: MBLK | (| Tes | Code: EF | PA Method | 8015M/D: Di | esel Range | e Organics | |
| Client ID: PBS | Batch ID | D: 55091 | | F | unNo: 7 | 1809 | | | | |

SPK value SPK Ref Val %REC LowLimit

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Prep Date: 9/10/2020

Diesel Range Organics (DRO)

Motor Oil Range Organics (MRO)

Analyte

Surr: DNOP

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

SeqNo: 2512604

97.7

30.4

Units: mg/Kg

154

%RPD

RPDLimit

Qual

HighLimit

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2009562 16-Sep-20

WO#:

Client: Souder, Miller & Associates

Project: Maljamar 15 50

Sample ID: Ics-54986 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 54986 RunNo: 71790

Prep Date: 9/6/2020 Analysis Date: 9/11/2020 SeqNo: 2511831 Units: %Rec

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual S Surr: BFB 1200 1000 116 75.3 105

Sample ID: Ics-55080 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 55080 RunNo: 71790

Prep Date: 9/10/2020 Analysis Date: 9/12/2020 SeqNo: 2511832 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 19
 5.0
 25.00
 0
 75.2
 72.5
 106

 Surr: BFB
 1000
 1000
 100
 75.3
 105

Sample ID: mb-54986 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 54986 RunNo: 71790

Prep Date: 9/6/2020 Analysis Date: 9/11/2020 SegNo: 2511833 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 1100 1000 108 75.3 105 S

Sample ID: mb-55080 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 55080 RunNo: 71790

Prep Date: 9/10/2020 Analysis Date: 9/12/2020 SeqNo: 2511834 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 920 1000 92.4 75.3 105

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 Quanitative 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 Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2009562**

16-Sep-20

Client: Souder, Miller & Associates

Project: Maljamar 15 50

| Sample ID: LCS-55080 | SampT | ype: LC | S | Tes | tCode: El | PA Method | 8021B: Volat | iles | | |
|----------------------------|------------|-------------------|-----------|-------------|-----------|-----------|--------------|------|----------|------|
| Client ID: LCSS | Batcl | n ID: 55 0 | 080 | F | RunNo: 7 | 1790 | | | | |
| Prep Date: 9/10/2020 | Analysis D | Date: 9/ | 12/2020 | S | SeqNo: 2 | 511862 | Units: mg/K | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.93 | 0.025 | 1.000 | 0 | 92.6 | 80 | 120 | | | |
| Toluene | 0.94 | 0.050 | 1.000 | 0 | 94.1 | 80 | 120 | | | |
| Ethylbenzene | 0.94 | 0.050 | 1.000 | 0 | 94.4 | 80 | 120 | | | |
| Xylenes, Total | 2.8 | 0.10 | 3.000 | 0 | 94.4 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 105 | 80 | 120 | | | |

| Sample ID: mb-55080 | SampT | уре: МЕ | BLK | Tes | tCode: El | PA Method | 8021B: Volat | iles | | |
|----------------------------|------------|-----------------|-----------|-------------|-----------|-----------|--------------|------|----------|------|
| Client ID: PBS | Batcl | h ID: 55 | 080 | F | RunNo: 7 | 1790 | | | | |
| Prep Date: 9/10/2020 | Analysis D | Date: 9/ | 12/2020 | \$ | SeqNo: 2 | 511863 | Units: mg/K | (g | | |
| 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 | 0.99 | | 1.000 | | 99.1 | 80 | 120 | | | |

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 Quanitative Limit

- 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 Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2009562**

16-Sep-20

Client: Souder, Miller & Associates

Project: Maljamar 15 50

| Sample ID: mb-55088 | Samp | Гуре: МЕ | BLK | Tes | tCode: El | PA Method | 8260B: Vola | tiles Short | List | |
|-----------------------------|------------|-------------------|-----------|-------------|-----------------|-----------|-------------|-------------|----------|------|
| Client ID: PBS | Batc | h ID: 55 0 | 088 | F | RunNo: 7 | 1789 | | | | |
| Prep Date: 9/10/2020 | Analysis [| Date: 9/ | 11/2020 | 5 | SeqNo: 2 | 511752 | Units: mg/k | (g | | |
| 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: 1,2-Dichloroethane-d4 | 0.47 | | 0.5000 | | 93.4 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.51 | | 0.5000 | | 103 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.52 | | 0.5000 | | 104 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.50 | | 0.5000 | | 100 | 70 | 130 | | | |

| Sample ID: Ics-55088 | Samp1 | ype: LC | S4 | Tes | tCode: El | PA Method | 8260B: Volat | iles Short | List | |
|-----------------------------|------------|-------------------|-----------|-------------|-----------|-----------|--------------|------------|----------|------|
| Client ID: BatchQC | Batcl | h ID: 55 0 | 088 | F | RunNo: 7 | 1789 | | | | |
| Prep Date: 9/10/2020 | Analysis D | Date: 9/ | 11/2020 | 9 | SeqNo: 2 | 511753 | Units: mg/k | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.93 | 0.025 | 1.000 | 0 | 92.8 | 80 | 120 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 102 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 103 | 80 | 120 | | | |
| Xylenes, Total | 3.2 | 0.10 | 3.000 | 0 | 106 | 80 | 120 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.49 | | 0.5000 | | 97.5 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.51 | | 0.5000 | | 102 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.53 | | 0.5000 | | 106 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.51 | | 0.5000 | | 102 | 70 | 130 | | | |

| Sample ID: 2009562-005ams | Samp1 | Гуре: М S | 64 | Tes | tCode: El | PA Method | 8260B: Volat | tiles Short | List | |
|-----------------------------|------------|-------------------|-----------|-------------|-----------------|-----------|--------------|-------------|----------|------|
| Client ID: SW5 | Batc | h ID: 55 0 | 088 | F | RunNo: 7 | 1789 | | | | |
| Prep Date: 9/10/2020 | Analysis D | Date: 9/ | 11/2020 | S | SeqNo: 2 | 511755 | Units: mg/k | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.96 | 0.025 | 0.9930 | 0 | 97.1 | 71.1 | 115 | | | |
| Toluene | 1.1 | 0.050 | 0.9930 | 0 | 106 | 79.6 | 132 | | | |
| Ethylbenzene | 1.1 | 0.050 | 0.9930 | 0 | 106 | 83.8 | 134 | | | |
| Xylenes, Total | 3.4 | 0.099 | 2.979 | 0 | 113 | 82.4 | 132 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.47 | | 0.4965 | | 93.9 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.53 | | 0.4965 | | 106 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.52 | | 0.4965 | | 105 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.50 | | 0.4965 | | 101 | 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 Quanitative 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 Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2009562**

16-Sep-20

Client: Souder, Miller & Associates

Project: Maljamar 15 50

| Sample ID: 2009562-005am | sd Samp∃ | Гуре: МS | SD4 | Tes | tCode: El | PA Method | 8260B: Vola | tiles Short | List | |
|-----------------------------|-----------------|-------------------|-----------|-------------|-----------------|-----------|-------------|-------------|----------|------|
| Client ID: SW5 | Batc | h ID: 55 0 | 088 | F | RunNo: 7 | 1789 | | | | |
| Prep Date: 9/10/2020 | Analysis [| Date: 9/ | 11/2020 | 9 | SeqNo: 2 | 511756 | Units: mg/k | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.97 | 0.024 | 0.9785 | 0 | 99.5 | 71.1 | 115 | 0.990 | 20 | |
| Toluene | 1.0 | 0.049 | 0.9785 | 0 | 106 | 79.6 | 132 | 1.19 | 20 | |
| Ethylbenzene | 1.0 | 0.049 | 0.9785 | 0 | 105 | 83.8 | 134 | 1.92 | 20 | |
| Xylenes, Total | 3.3 | 0.098 | 2.935 | 0 | 112 | 82.4 | 132 | 2.69 | 20 | |
| Surr: 1,2-Dichloroethane-d4 | 0.48 | | 0.4892 | | 97.3 | 70 | 130 | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | 0.51 | | 0.4892 | | 105 | 70 | 130 | 0 | 0 | |
| Surr: Dibromofluoromethane | 0.54 | | 0.4892 | | 111 | 70 | 130 | 0 | 0 | |
| Surr: Toluene-d8 | 0.49 | | 0.4892 | | 100 | 70 | 130 | 0 | 0 | |

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 Quanitative Limit

- 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 Limit

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Hall Environmental Analysis Laboratory, Inc.

2009562 16-Sep-20

WO#:

Client: Souder, Miller & Associates

Project: Maljamar 15 50

Sample ID: mb-55088 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: **PBS** Batch ID: **55088** RunNo: **71789**

Prep Date: 9/10/2020 Analysis Date: 9/11/2020 SeqNo: 2511770 Units: mq/Kq

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 510 500.0 101 70 130

Sample ID: Ics-55088 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 55088 RunNo: 71789

Prep Date: 9/10/2020 Analysis Date: 9/11/2020 SeqNo: 2511771 Units: mg/Kg

Result **RPDLimit** Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual 70 Gasoline Range Organics (GRO) 5.0 25.00 O 85.8 130

 Surr: BFB
 520
 500.0
 105
 70
 130

Sample ID: 2009562-006ams SampType: MS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: **SW6** Batch ID: **55088** RunNo: **71789**

Prep Date: 9/10/2020 Analysis Date: 9/11/2020 SeqNo: 2511774 Units: mg/Kg

Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual Gasoline Range Organics (GRO) 22 4.9 24.46 0 88.0 49.2 122 Surr: BFB 70 500 489.2 103 130

Sample ID: 2009562-006amsd SampType: MSD TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: SW6 Batch ID: 55088 RunNo: 71789

Prep Date: 9/10/2020 Analysis Date: 9/12/2020 SeqNo: 2511775 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual 122 Gasoline Range Organics (GRO) 23 24.70 93.8 49.2 7.37 4.9 20 Surr: BFB 520 494.1 106 70 130 0 0

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 Quanitative 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 Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

| Clie | ent Name: | Souder, Mil Associates | ler & | Work | Order Nun | nber: 2009562 | | RcptNo | 1 |
|--------------|--------------------------------|---|---|-----------------|------------|---------------|------------------|-------------------|-------------------|
| Rece | eived By: | Juan Roja | s | 9/10/20 | 20 8:00:00 | AM | Glangy Guaray | - | |
| Com | npleted By: | Juan Roja | s | 9/10/20 | 20 8:59:40 | AM | Hansay | - | |
| Revi | iewed By: | SPA | 9.10, | 20 | | | | | |
| Cha | in of Cust | ody | | | | | | | |
| | S Chain of Cu | | ete? | | | Yes 🗸 | No 🗌 | Not Present | |
| 2. H | low was the s | ample deliv | ered? | | | Courier | | | |
| | g In Vas an attemi | ot made to c | ool the sampl | es? | | Yes 🗸 | No 🗆 | NA 🗆 | |
| | | -1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | out the cumpi | | | 100 🖭 | | | |
| 4. W | lere all sampl | les received | at a temperat | ure of >0° C t | o 6.0°C | Yes 🗸 | No 🗌 | NA \square | |
| 5. S | ample(s) in p | roper contai | ner(s)? | | | Yes 🗸 | No 🗌 | | |
| 6. Su | ufficient samp | ole volume fo | or indicated te | st(s)? | | Yes 🗸 | No \square | | |
| 7. Ar | e samples (e | xcept VOA | and ONG) pro | perly preserve | ed? | Yes 🗸 | No 🗌 | | |
| 8. W | as preservati | ve added to | bottles? | | | Yes | No 🗸 | NA 🗌 | |
| 9. Re | eceived at lea | ast 1 vial with | n headspace < | 1/4" for AQ V | OA? | Yes | No 🗌 | NA 🗸 | |
| 10. W | lere any sam | ple containe | rs received br | oken? | | Yes | No 🗸 | # of preserved | |
| 11 D | | | | | | | N | bottles checked | |
| | oes paperwor lote discrepar | | ile labels? in of custody) | | | Yes 🗸 | No 🗀 | for pH: (≤2 or | >12 unless noted) |
| | | | ified on Chain | of Custody? | | Yes 🗸 | No 🗌 | Adjusted? | |
| | | | re requested? | | | Yes 🗸 | No 🗌 | | NI |
| | ere all holding | | | | | Yes 🗸 | No 🗌 | Checked by: | m 9/10/2 |
| (11 | no, notify cus | stomer for a | uthorization.) | | | | | | |
| Spec | ial Handlii | ng (if app | <u>licable)</u> | | | | | | |
| 15.W | las client noti | fied of all di | screpancies w | ith this order? | | Yes | No 🗌 | NA 🗸 | -1 |
| | Person N | Notified: | | | Date | | | | |
| | By Whon | n: [| | | Via: | eMail | Phone Fax | ☐ In Person | |
| | Regardin | | *************************************** | | | | | | |
| | Client Ins | structions: | | | | | | | |
| 16. A | Additional rem | arks: | | | | | | | |
| 17. <u>c</u> | Cooler Inform | nation | | | | | | | |
| | Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By | | |
| | 1 | 2.1 | Good | | | | | | |

| ALL ENVIRONMENTAL | | 5 1000 (5000) :::S:::) | niinoik-iiin | ָ - - - | | | | | | | | | |
|--|------------------|------------------------|--------------|----------------------|---|------------|--------|-----------------|-------------------|--------|---------------|----------------|--------|
| Project Name: Name | | | □ Standarc | | ء | | | HA | E E | N | | NMEN | ITAL |
| Holdguero St. Project #: | | <u>a</u> | roject Nam | | 1 | | | | | | 3 | ANDO | ב ב |
| Tel: 605-345-3975 Tel: 605-345-3477 Tel: 605-345- | Halague | 5 | | | | 4 | 901 Ha | www. Vkins N | , <u>a</u> | /Ironm | ental.c | om IM 87109 | |
| Project Manager: | ٠, | | roject #: | | - | | el 505 | 345-36 | | Fax 5 | 05-345 | 4107 | |
| Project Manager: ASAREY NAxwort Asample Sampler: Asample: | | | | | | | | | Inal | ysis R | ednes | t | |
| Total Validation ASNEW Naxwell Sampler | | Ь | roject Mana | ager: | | _ | | | *C | | (11 | | |
| mple Name Type and # | | | 5 | | | | | SM |)S ԠC | | pseu | ₩ē. | |
| ance Sampler: SO Sampler: Sampler: So Sampler: Sample | ☐ Level 4 (Fu | \dashv | Ashler | Z | 2011 | | | S0 |) Ы | | // <u>}</u> L | | |
| Mark Container Cooler Tempressuring cris A to Cooler Tempr | ompliance | Ø | - 1 | Q | | | 280 | | 10 ⁵ ' | | | | |
| # of Coolers: 1 # of Coole | ١ | 0 | | -B-Yes | oN 🗆 | | 8/s | | _ | | | 1 | |
| Cooler Temporator of the Container Preservative HEAL NO. Container Preservative HEAL NO. Container Type and # Type Ty | | # | of Coolers: | 1 | | | əbi | | _ | | | | |
| Mark Type and # Type Type Type and # Type Type and # Type Ty | | O | ooler Temp | - | 10.7=2.1 | | oitee | | | | | | |
| W2 W2 W3 W3 W4 W4 W5 W4 W5 W6 | Sample Nar | | | Preservative Type | 200 | | ☐ 1808 | | _ | | | | |
| W.2 W.3 W.4 W.5 W.5 W.5 W.5 W.5 W.5 W.5 | SWI | | | Cool | | _ | | | 1 | | | | |
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| NVE | 5.013 | | | | 202 | | | | | | | | |
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| Least Court of the Arabica State Time Remarks: Received by: Via: Date Time Remarks: Received by: Via: Date Time Date Time Time Daylon Worth 20869997 | C53 | | 4 | -1 | 20- | <u>ー</u> 」 | | | + | | | | |
| Received by: Via: Date Time Remarks: Received by: Via: Date Time Received by: Via: Date Time Daylon Worth 20869997 | 5 | | | | | | | | | | | | |
| Lean C. Received by: Via: Date Time Dovier Worth 20869907 | Relinquished by: | Re | ceivegly: | Via: | ē. | Remark | .s. | | | |] | - | |
| Received by: Via: Date Time Daylon Worth 2086997 | oistean | 9 | All b | | 50 | | | | | | | | |
| | Med by: | 8 | ceived by: | Via: | Date Alm B | | 5 | 3 | #0 | N | 980 | 10660 | _ |

APPENDIX E PHOTO LOG







Released to Imaging: 1/13/2023 8:07:29 AM 03 Sep 2020; (1 38:38)



District I
1625 N. French Dr., Hobbs, NM 88240
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1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 10718

CONDITIONS

| Operator: | OGRID: |
|----------------------------------|---|
| Pima Environmental Services, LLC | 329999 |
| 5614 N Lovington Hwy | Action Number: |
| Hobbs, NM 88240 | 10718 |
| | Action Type: |
| | [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Crea By | | Condition Date |
|------------|-----------|-------------------|
| bha | None None | 1/13/2023 |