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

State of New Mexico
Energy Minerals and Natural Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: LM Energy, LLC	OGRID: 329097
Contact Name: Greg Watson	Contact Telephone: 432.301.0066
Contact email: glw@lmenergypartners.com	Incident # *(assigned by OCD):* nAPP2325559441
Contact mailing address: 2850 N. Harwood, Suite 1050, Dallas, Texas, 75201	

Location of Release Source

Latitude 32.623406 Longitude -103.850231
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Hackberry LACT	Site Type: Liquid Custody Transfer Point
Date Release Discovered: 8/7/2023	API# *(if applicable)*:

Unit Letter	Section	Township	Range	County
E	34	19S	31E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* LM Energy, LLC)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls) 29	Volume Recovered (bbls) 29
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: At approximately 11:30 am on 8/7/2023 operations were onsite to prove the LACT. During the proving operation, the hose ruptured causing the crude oil release. Based on operational data ~29 bbl of crude oil was lost to the ground. Once the issue was identified the valve was closed completely, ending the release.

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Page 2

State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Maximum volume of the release (calculated by flow and pressure) is 29 barrels (bbl), and is greater than the 25 bbl threshold.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Immediate notice was given by Grant McAfee (Resolute) to Mr. Mike Bratcher (OCD) via email on 8/8/2023 at 3:06 pm.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why: N/A

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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: Greg Watson
Title: VP of Operations

Signature: _____
Date: 9/26/2023

email: glw@lmenergypartners.co
Telephone: 432-301-0066

OCD Only

Received by: Scott Rodgers
Date: 09/27/2023

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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?	< 50 (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 vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

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 wells.
☒ Field data
☒ 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.

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Page 4

State of New Mexico
Oil Conservation Division

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Printed Name: Greg Watson Title: VP of Operations

Signature: Date: 9/26/2023

email: glw@lmenergypartners.co Telephone: 432-301-0066

OCD Only

Received by: Scott Rodgers Date: 09/27/2023

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OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

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Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

☒ Detailed description of proposed remediation technique
☒ Scaled sitemap with GPS coordinates showing delineation points
☒ Estimated volume of material to be remediated
☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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Printed Name: Greg Watson Title: VP of Operations

Signature: Date: 9/26/2023

email: glw@lmenergypartners.co Telephone: 432-301-0066

OCD Only

Received by: Scott Rodgers Date: 09/27/2023

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Date:

n C-141
s

State of New Mexico
Oil Conservation Division

Incident ID	
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Remediation Plan

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Scaled sitemap with GPS coordinates showing delineation points
Estimated volume of material to be remediated
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ture: Date: 9/26/2023

: glw@lmenergypartners.co Telephone: 432-301-0066

Only

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Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

ture: Date:

Incident ID	
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Facility ID	
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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 items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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Printed Name: Greg Watson Title: VP of Operations

Signature: _____ Date: 9/26/2023

email: glw@lmenergypartners.co Telephone: 432-301-0066

OCD Only

Received by: Scott Rodgers Date: 09/27/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Form C-141
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State of New Mexico
Oil Conservation Division

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Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

September 26, 2023

State of New Mexico Oil Conservation Division
District II - Artesia
811 S. First St.,
Artesia, NM 88210

RE: LM Touchdown, LLC Spill Closure Request for Hackberry LACT Location, Eddy County, New Mexico

To Whom it May Concern,

Resolute Compliance, LLC (Resolute) is writing you on behalf of LM Touchdown, LLC (LM) regarding a spill that occurred at their Hackberry LACT location in Eddy County, New Mexico.

LM is requesting concurrence on the closure of the spill after final soil sampling and excavation activities. Please see details of the remediation plan and final remediation plan herein.

Remediation Plan

Following the discovery of the spill, initial excavation was completed to what was expected to be clean soil. Confirmation sampling was conducted in the initial excavation area on 8/11/23. Areas where detection limits were above clean up criteria further excavation was completed. A second round of sampling was completed in the areas where further excavation was required on 8/18/23. All sample locations were below clean up criteria after the second round of excavation and confirmation sampling.

Excavation and Disposal

Excavation and disposal of oil impacted soils were conducted with a combination of mechanical and hand digging. Hand digging was conducted around active piping so as to not disturb an operational tank system and pump equipment.

All oil impacted soils were removed from the site and shipped as exploration and production exempt waste to the nearby R360 Environmental Solutions in Hobbs, New Mexico.

Closure

The second round of sampling for closure occurred on August 18, 2023. The results of the sampling indicated all sampled areas were below cleanup criteria.

Under NMAC 19.15.29, the worst case scenario of less than or equal to 50 feet was utilized to determine closure criteria for soils impact by the release (Table I).

Should you require any further information regarding the initial incident, or the follow-up actions taken by LM, please don't hesitate to reach out directly to me by phone at 972.842.4304 or via email at jj@resolutecompliance.com

Kind regards,

Jeff Jackson

Vice President of EHSR

Encl: Completed C-141 Report

Attachment A - Figures
- Aerial Map
- Determination of Water Sources Map
- Scaled Site Map

Attachment B – Samples and Analyses
- Analytical Results Summary
- Analytical Reports

Attachment C – Field Data
- Release Photo Logs
- Filed Notes

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Revised August 24, 2018
Submit to appropriate OCD District office

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Release Notification

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Contact mailing address: 2850 N. Harwood, Suite 1050, Dallas, Texas, 75201	

Location of Release Source

Latitude 32.623406 Longitude -103.850231
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Hackberry LACT	Site Type: Liquid Custody Transfer Point
Date Release Discovered: 8/7/2023	API# *(if applicable)*:

Unit Letter	Section	Township	Range	County
E	34	19S	31E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* LM Energy, LLC)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls) 29	Volume Recovered (bbls) 29
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
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Signature: Greg Watson Date: 9/26/2023

Email: glw@lmenergypartners.co Telephone: 432-301-0066

OCD Only

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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 vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

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 wells.
☒ Field data
☒ 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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
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: Greg Watson Title: VP of Operations

Signature: _____ Date: 9/26/2023

email: glw@lmenergypartners.co Telephone: 432-301-0066

OCD Only

Received by: _____ Date: _____

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
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Printed Name: Greg Watson Title: VP of Operations

Signature: Greg Watson Date: 9/26/2023

email: glw@lmenergypartners.co Telephone: 432-301-0066

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

☒ Detailed description of proposed remediation technique
☒ Scaled sitemap with GPS coordinates showing delineation points
☒ Estimated volume of material to be remediated
☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Greg Watson Title: VP of Operations

Signature: _____ Date: 9/26/2023

email: glw@lmenergypartners.co Telephone: 432-301-0066

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

n C-141
s

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

ediation Plan Checklist: ***Each of the following items must be included in the plan.***

Detailed description of proposed remediation technique
Scaled sitemap with GPS coordinates showing delineation points
Estimated volume of material to be remediated
Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
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ed Name: Greg Watson Title: VP of Operations

ture: Date: 9/26/2023

: glw@lmenergypartners.co Telephone: 432-301-0066

Only

ived by: Date:

Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

ture: Date:

Incident ID	
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 items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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Printed Name: Greg Watson Title: VP of Operations

Signature: _____ Date: 9/26/2023

email: glw@lmenergypartners.co Telephone: 432-301-0066

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

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Page 6

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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Printed Name: Greg Watson

Title: VP of Operations

Signature:

Date: 9/26/2023

email: glw@lmenergypartners.co

Telephone: 432-301-0066

OCD Only

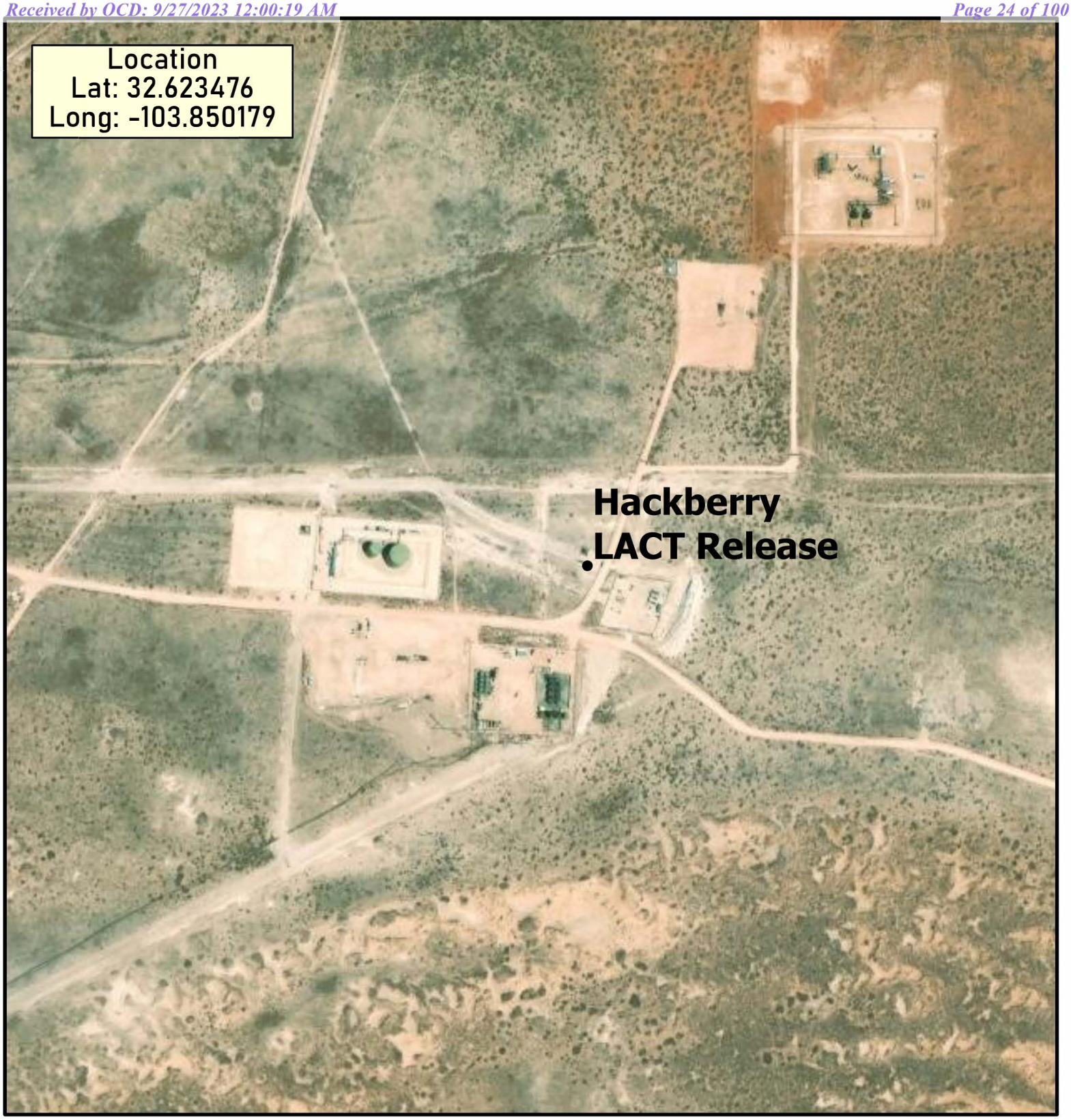
Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate an remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsibl party of compliance with any other federal, state, or local laws and/or regulations.

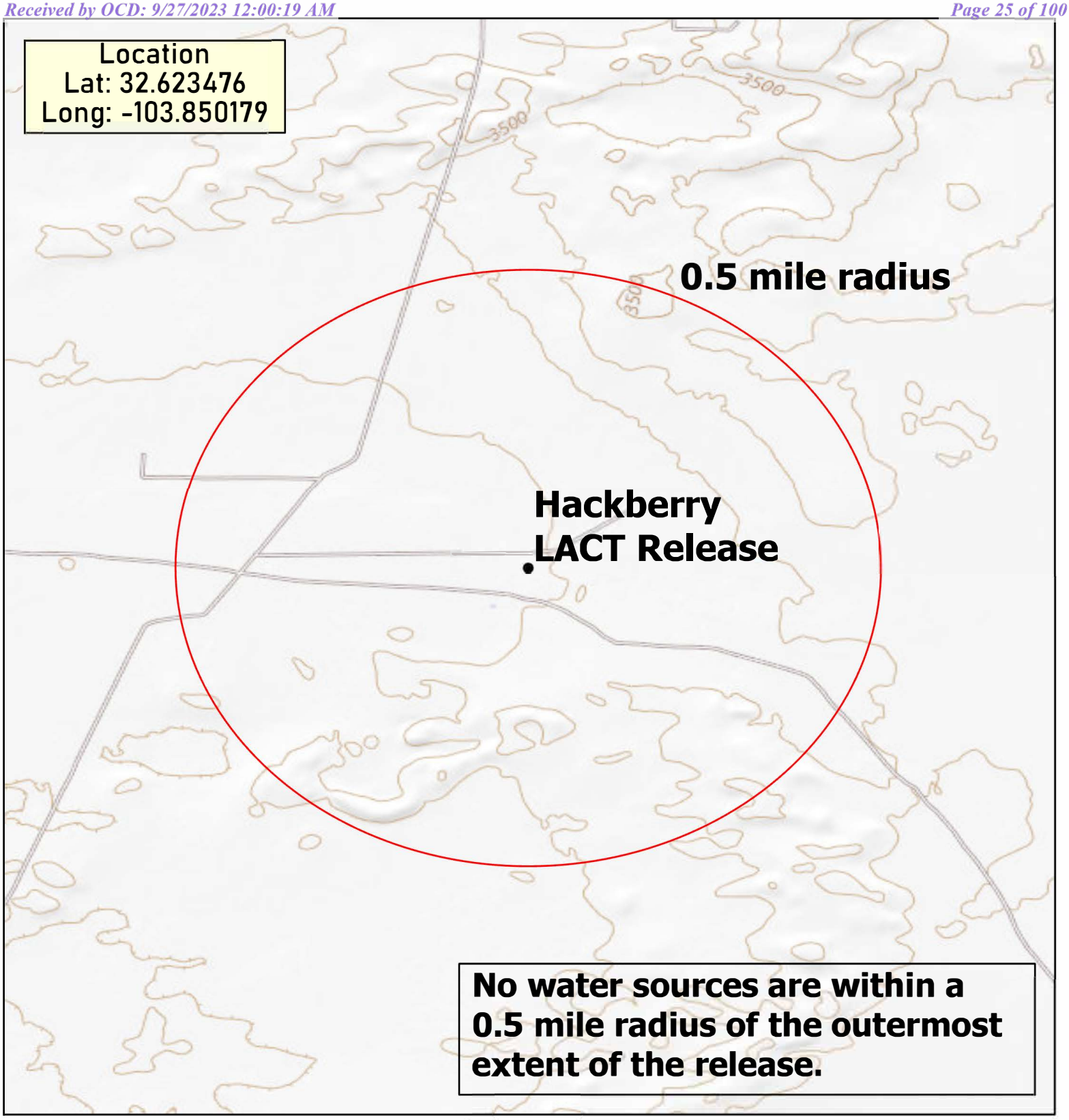
Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

ATTACHMENT A – FIGURES



RESOLUTE COMPLIANCE, LLC Purposeful Solutions. Unwavering Service.	LM Touchdown, LLC Hackberry LACT Eddy County, NM **Aerial Map**	Project No. Env-LM-Hackberry Report No. LM-0058 Date: September 2023



RESOLUTE COMPLIANCE, LLC Purposeful Solutions. Unwavering Service.	LM Touchdown, LLC Hackberry LACT Eddy County, NM **Determination of Water Sources**	Project No. Env-LM-Hackberry Report No. LM-0058 Date: September 2023

RESOLUTE COMPLIANCE, LLC Purposeful Solutions. Unwavering Service.	LM Touchdown, LLC Hackberry LACT Eddy County, NM **Scaled Site Map**	Project No. Env-LM-Hackberry Report No. LM-0058 Date: September 2023

ATTACHMENT B – SAMPLES AND ANALYSES

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Grant McAfee
Resolute Compliance LLC
115 FM 2453
Suite A
Royse City, Texas 75189

Generated 8/14/2023 9:29:45 PM

JOB DESCRIPTION

Hackberry LACT

JOB NUMBER

880-31964-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
8/14/2023 9:29:45 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Laboratory Job ID: 880-31964-1

Table of Contents

Definitions/Glossary

Client: Resolute Compliance LLC Job ID: 880-31964-1
Project/Site: Hackberry LACT

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31964-1

Job ID: 880-31964-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-31964-1

Receipt
The samples were received on 8/11/2023 2:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.5°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: HB01 (880-31964-1), HB02 (880-31964-2), HB03 (880-31964-3), HB04 (880-31964-4), HB05 (880-31964-5), HB06 (880-31964-6), HB07 (880-31964-7), HB08 (880-31964-8) and HB09 (880-31964-9).

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-60006 recovered below the lower control limit for o-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated samples are impacted: (CCV 880-60006/2) and (CCV 880-60006/33).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-60037/31), (CCV 880-60037/47) and (CCV 880-60037/58). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-31964-A-1-H MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: HB02 (880-31964-2), HB03 (880-31964-3), HB04 (880-31964-4) and HB05 (880-31964-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: HB08 (880-31964-8) and HB09 (880-31964-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: HB07 (880-31964-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-59961 and analytical batch 880-60054 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.The associated samples are: HB01 (880-31964-1), HB02 (880-31964-2), HB03 (880-31964-3), HB04 (880-31964-4), HB05 (880-31964-5), HB06 (880-31964-6) and HB07 (880-31964-7).

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-59961 and analytical batch 880-60054 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.The associated samples are: HB08 (880-31964-8), HB09 (880-31964-9), (880-31964-A-8-B MS) and (880-31964-A-8-C MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31964-1

Client Sample ID: HB01

Date Collected: 08/11/23 09:05
Date Received: 08/11/23 14:00

Lab Sample ID: 880-31964-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/12/23 14:43	08/13/23 08:20	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/12/23 14:43	08/13/23 08:20	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/12/23 14:43	08/13/23 08:20	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/12/23 14:43	08/13/23 08:20	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/12/23 14:43	08/13/23 08:20	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/12/23 14:43	08/13/23 08:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*08/12/23 14:43*	*08/13/23 08:20*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*08/12/23 14:43*	*08/13/23 08:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			08/14/23 11:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**136**		50.2		mg/Kg			08/14/23 22:11	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		08/12/23 18:22	08/13/23 21:21	1
Diesel Range Organics (Over C10-C28)	**136**		50.2		mg/Kg		08/12/23 18:22	08/13/23 21:21	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/12/23 18:22	08/13/23 21:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*08/12/23 18:22*	*08/13/23 21:21*	*1*
o-Terphenyl	*119*		*70 - 130*	*08/12/23 18:22*	*08/13/23 21:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**133**		5.03		mg/Kg			08/12/23 12:30	1

Client Sample ID: HB02

Date Collected: 08/11/23 09:10
Date Received: 08/11/23 14:00

Lab Sample ID: 880-31964-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/12/23 14:43	08/13/23 08:40	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/12/23 14:43	08/13/23 08:40	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/12/23 14:43	08/13/23 08:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/12/23 14:43	08/13/23 08:40	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/12/23 14:43	08/13/23 08:40	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/12/23 14:43	08/13/23 08:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*08/12/23 14:43*	*08/13/23 08:40*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*08/12/23 14:43*	*08/13/23 08:40*	*1*

Client Sample Results

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31964-1

Client Sample ID: HB02

Date Collected: 08/11/23 09:10
Date Received: 08/11/23 14:00

Lab Sample ID: 880-31964-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/14/23 11:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**113**		50.3		mg/Kg			08/14/23 22:11	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		08/12/23 18:22	08/13/23 22:28	1
Diesel Range Organics (Over C10-C28)	**113**		50.3		mg/Kg		08/12/23 18:22	08/13/23 22:28	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		08/12/23 18:22	08/13/23 22:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*138*	*S1+*	*70 - 130*	*08/12/23 18:22*	*08/13/23 22:28*	*1*
o-Terphenyl	*128*		*70 - 130*	*08/12/23 18:22*	*08/13/23 22:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**219**		5.00		mg/Kg			08/12/23 12:37	1

Client Sample ID: HB03

Date Collected: 08/11/23 09:15
Date Received: 08/11/23 14:00

Lab Sample ID: 880-31964-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/12/23 14:43	08/13/23 09:00	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/12/23 14:43	08/13/23 09:00	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/12/23 14:43	08/13/23 09:00	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/12/23 14:43	08/13/23 09:00	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/12/23 14:43	08/13/23 09:00	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/12/23 14:43	08/13/23 09:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*08/12/23 14:43*	*08/13/23 09:00*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/12/23 14:43*	*08/13/23 09:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			08/14/23 11:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**62.3**		50.5		mg/Kg			08/14/23 22:11	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		08/12/23 18:22	08/13/23 22:50	1
Diesel Range Organics (Over C10-C28)	**62.3**		50.5		mg/Kg		08/12/23 18:22	08/13/23 22:50	1

Client Sample Results

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31964-1

Client Sample ID: HB03

Date Collected: 08/11/23 09:15
Date Received: 08/11/23 14:00

Lab Sample ID: 880-31964-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/12/23 18:22	08/13/23 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*254*	*S1+*	*70 - 130*	*08/12/23 18:22*	*08/13/23 22:50*	*1*
o-Terphenyl	*247*	*S1+*	*70 - 130*	*08/12/23 18:22*	*08/13/23 22:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**138**		4.99		mg/Kg			08/12/23 12:58	1

Client Sample ID: HB04

Date Collected: 08/11/23 09:20
Date Received: 08/11/23 14:00

Lab Sample ID: 880-31964-4
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/12/23 14:43	08/13/23 09:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/12/23 14:43	08/13/23 09:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/12/23 14:43	08/13/23 09:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/12/23 14:43	08/13/23 09:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/12/23 14:43	08/13/23 09:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/12/23 14:43	08/13/23 09:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*08/12/23 14:43*	*08/13/23 09:21*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*08/12/23 14:43*	*08/13/23 09:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/14/23 11:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**60.3**		50.1		mg/Kg			08/14/23 22:11	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		08/12/23 18:22	08/13/23 23:11	1
Diesel Range Organics (Over C10-C28)	**60.3**		50.1		mg/Kg		08/12/23 18:22	08/13/23 23:11	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		08/12/23 18:22	08/13/23 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*133*	*S1+*	*70 - 130*	*08/12/23 18:22*	*08/13/23 23:11*	*1*
o-Terphenyl	*120*		*70 - 130*	*08/12/23 18:22*	*08/13/23 23:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**105**		5.01		mg/Kg			08/12/23 13:05	1

Client Sample Results

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31964-1

Client Sample ID: HB05

Date Collected: 08/11/23 09:25
Date Received: 08/11/23 14:00

Lab Sample ID: 880-31964-5
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/12/23 14:43	08/13/23 09:41	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/12/23 14:43	08/13/23 09:41	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/12/23 14:43	08/13/23 09:41	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/12/23 14:43	08/13/23 09:41	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/12/23 14:43	08/13/23 09:41	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/12/23 14:43	08/13/23 09:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*08/12/23 14:43*	*08/13/23 09:41*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*08/12/23 14:43*	*08/13/23 09:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			08/14/23 11:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**53.4**		50.2		mg/Kg			08/14/23 22:11	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		08/12/23 18:22	08/13/23 23:33	1
Diesel Range Organics (Over C10-C28)	**53.4**		50.2		mg/Kg		08/12/23 18:22	08/13/23 23:33	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/12/23 18:22	08/13/23 23:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*141*	*S1+*	*70 - 130*	*08/12/23 18:22*	*08/13/23 23:33*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*08/12/23 18:22*	*08/13/23 23:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**131**		4.97		mg/Kg			08/12/23 13:13	1

Client Sample ID: HB06

Date Collected: 08/11/23 09:30
Date Received: 08/11/23 14:00

Lab Sample ID: 880-31964-6
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/12/23 14:43	08/13/23 10:02	1
Toluene	**0.00334**		0.00201		mg/Kg		08/12/23 14:43	08/13/23 10:02	1
Ethylbenzene	**0.00207**		0.00201		mg/Kg		08/12/23 14:43	08/13/23 10:02	1
m-Xylene & p-Xylene	**0.00614**		0.00402		mg/Kg		08/12/23 14:43	08/13/23 10:02	1
o-Xylene	**0.00266**		0.00201		mg/Kg		08/12/23 14:43	08/13/23 10:02	1
Xylenes, Total	**0.00880**		0.00402		mg/Kg		08/12/23 14:43	08/13/23 10:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*08/12/23 14:43*	*08/13/23 10:02*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*08/12/23 14:43*	*08/13/23 10:02*	*1*

Client Sample Results

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31964-1

Client Sample ID: HB06

Date Collected: 08/11/23 09:30
Date Received: 08/11/23 14:00

Lab Sample ID: 880-31964-6
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0142**		0.00402		mg/Kg			08/14/23 11:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**148**		50.1		mg/Kg			08/14/23 22:11	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		08/12/23 18:22	08/13/23 23:55	1
Diesel Range Organics (Over C10-C28)	**148**		50.1		mg/Kg		08/12/23 18:22	08/13/23 23:55	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		08/12/23 18:22	08/13/23 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*08/12/23 18:22*	*08/13/23 23:55*	*1*
o-Terphenyl	*119*		*70 - 130*	*08/12/23 18:22*	*08/13/23 23:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**62.1**		4.96		mg/Kg			08/12/23 13:20	1

Client Sample ID: HB07

Date Collected: 08/11/23 09:35
Date Received: 08/11/23 14:00

Lab Sample ID: 880-31964-7
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.101	U	0.101		mg/Kg		08/12/23 14:43	08/13/23 11:23	50
Toluene	**2.96**		0.101		mg/Kg		08/12/23 14:43	08/13/23 11:23	50
Ethylbenzene	**5.60**		0.101		mg/Kg		08/12/23 14:43	08/13/23 11:23	50
m-Xylene & p-Xylene	**10.1**		0.202		mg/Kg		08/12/23 14:43	08/13/23 11:23	50
o-Xylene	**4.80**		0.101		mg/Kg		08/12/23 14:43	08/13/23 11:23	50
Xylenes, Total	**14.9**		0.202		mg/Kg		08/12/23 14:43	08/13/23 11:23	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*08/12/23 14:43*	*08/13/23 11:23*	*50*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*08/12/23 14:43*	*08/13/23 11:23*	*50*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**23.5**		0.202		mg/Kg			08/14/23 11:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**8210**		252		mg/Kg			08/14/23 22:11	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**939**		252		mg/Kg		08/12/23 18:22	08/14/23 07:03	5
Diesel Range Organics (Over C10-C28)	**6970**		252		mg/Kg		08/12/23 18:22	08/14/23 07:03	5

Client Sample Results

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31964-1

Client Sample ID: HB07

Lab Sample ID: 880-31964-7
Matrix: Solid
Date Collected: 08/11/23 09:35
Date Received: 08/11/23 14:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	**300**		252		mg/Kg		08/12/23 18:22	08/14/23 07:03	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*151*	*S1+*	*70 - 130*	*08/12/23 18:22*	*08/14/23 07:03*	*5*
o-Terphenyl	*123*		*70 - 130*	*08/12/23 18:22*	*08/14/23 07:03*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**111**		4.99		mg/Kg			08/12/23 13:27	1

Client Sample ID: HB08

Lab Sample ID: 880-31964-8
Matrix: Solid
Date Collected: 08/11/23 09:40
Date Received: 08/11/23 14:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/12/23 14:43	08/13/23 10:22	1
Toluene	**0.00287**		0.00200		mg/Kg		08/12/23 14:43	08/13/23 10:22	1
Ethylbenzene	**0.00214**		0.00200		mg/Kg		08/12/23 14:43	08/13/23 10:22	1
m-Xylene & p-Xylene	**0.00729**		0.00401		mg/Kg		08/12/23 14:43	08/13/23 10:22	1
o-Xylene	**0.00331**		0.00200		mg/Kg		08/12/23 14:43	08/13/23 10:22	1
Xylenes, Total	**0.0106**		0.00401		mg/Kg		08/12/23 14:43	08/13/23 10:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*08/12/23 14:43*	*08/13/23 10:22*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*08/12/23 14:43*	*08/13/23 10:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0156**		0.00401		mg/Kg			08/14/23 11:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**375**		50.0		mg/Kg			08/14/23 22:11	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/12/23 18:22	08/14/23 00:16	1
Diesel Range Organics (Over C10-C28)	**375**		50.0		mg/Kg		08/12/23 18:22	08/14/23 00:16	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/12/23 18:22	08/14/23 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*148*	*S1+*	*70 - 130*	*08/12/23 18:22*	*08/14/23 00:16*	*1*
o-Terphenyl	*137*	*S1+*	*70 - 130*	*08/12/23 18:22*	*08/14/23 00:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**61.7**	**F1**	5.02		mg/Kg			08/12/23 13:34	1

Client Sample Results

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31964-1

Client Sample ID: HB09

Date Collected: 08/11/23 09:45
Date Received: 08/11/23 14:00

Lab Sample ID: 880-31964-9

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00213**		0.00200		mg/Kg		08/12/23 14:43	08/13/23 10:43	1
Toluene	**0.0221**		0.00200		mg/Kg		08/12/23 14:43	08/13/23 10:43	1
Ethylbenzene	**0.0157**		0.00200		mg/Kg		08/12/23 14:43	08/13/23 10:43	1
m-Xylene & p-Xylene	**0.0367**		0.00399		mg/Kg		08/12/23 14:43	08/13/23 10:43	1
o-Xylene	**0.0157**		0.00200		mg/Kg		08/12/23 14:43	08/13/23 10:43	1
Xylenes, Total	**0.0524**		0.00399		mg/Kg		08/12/23 14:43	08/13/23 10:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*08/12/23 14:43*	*08/13/23 10:43*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*08/12/23 14:43*	*08/13/23 10:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0923**		0.00399		mg/Kg			08/14/23 11:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**683**		49.6		mg/Kg			08/14/23 22:11	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		08/12/23 18:22	08/14/23 00:38	1
Diesel Range Organics (Over C10-C28)	**683**		49.6		mg/Kg		08/12/23 18:22	08/14/23 00:38	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/12/23 18:22	08/14/23 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*135*	*S1+*	*70 - 130*	*08/12/23 18:22*	*08/14/23 00:38*	*1*
o-Terphenyl	*121*		*70 - 130*	*08/12/23 18:22*	*08/14/23 00:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**99.2**		4.99		mg/Kg			08/12/23 13:56	1

Surrogate Summary

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31964-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-31964-1	HB01	84	95
880-31964-1 MS	HB01	94	97
880-31964-1 MSD	HB01	96	99
880-31964-2	HB02	89	93
880-31964-3	HB03	78	97
880-31964-4	HB04	78	99
880-31964-5	HB05	86	94
880-31964-6	HB06	88	95
880-31964-7	HB07	104	83
880-31964-8	HB08	85	94
880-31964-9	HB09	95	93
LCS 880-60009/1-A	Lab Control Sample	90	96
LCSD 880-60009/2-A	Lab Control Sample Dup	89	95
MB 880-60006/8	Method Blank	94	126
MB 880-60009/5-A	Method Blank	94	115

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-31964-1	HB01	125	119
880-31964-1 MS	HB01	124	108
880-31964-1 MSD	HB01	131 S1+	113
880-31964-2	HB02	138 S1+	128
880-31964-3	HB03	254 S1+	247 S1+
880-31964-4	HB04	133 S1+	120
880-31964-5	HB05	141 S1+	131 S1+
880-31964-6	HB06	126	119
880-31964-7	HB07	151 S1+	123
880-31964-8	HB08	148 S1+	137 S1+
880-31964-9	HB09	135 S1+	121
LCS 880-60026/2-A	Lab Control Sample	118	121
LCSD 880-60026/3-A	Lab Control Sample Dup	116	122
MB 880-60026/1-A	Method Blank	122	123

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31964-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-60006/8
Matrix: Solid
Analysis Batch: 60006

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			08/12/23 20:15	1
Toluene	<0.00200	U	0.00200		mg/Kg			08/12/23 20:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			08/12/23 20:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			08/12/23 20:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			08/12/23 20:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			08/12/23 20:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*08/12/23 20:15*	*1*
1,4-Difluorobenzene (Surr)	*126*		*70 - 130*		*08/12/23 20:15*	*1*

Lab Sample ID: MB 880-60009/5-A
Matrix: Solid
Analysis Batch: 60006

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60009

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/12/23 14:43	08/13/23 07:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/12/23 14:43	08/13/23 07:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/12/23 14:43	08/13/23 07:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/12/23 14:43	08/13/23 07:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/12/23 14:43	08/13/23 07:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/12/23 14:43	08/13/23 07:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*08/12/23 14:43*	*08/13/23 07:51*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*08/12/23 14:43*	*08/13/23 07:51*	*1*

Lab Sample ID: LCS 880-60009/1-A
Matrix: Solid
Analysis Batch: 60006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60009

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09640		mg/Kg		96	70 - 130		
Toluene			0.100	0.09234		mg/Kg		92	70 - 130		
Ethylbenzene			0.100	0.08132		mg/Kg		81	70 - 130		
m-Xylene & p-Xylene			0.200	0.1824		mg/Kg		91	70 - 130		
o-Xylene			0.100	0.08780		mg/Kg		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-60009/2-A
Matrix: Solid
Analysis Batch: 60006

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60009

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09444		mg/Kg		94	70 - 130	2	35

QC Sample Results

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31964-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-60009/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 60006 — **Prep Batch: 60009**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09421		mg/Kg		94	70 - 130	2	35
Ethylbenzene			0.100	0.08645		mg/Kg		86	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.1808		mg/Kg		90	70 - 130	1	35
o-Xylene			0.100	0.08595		mg/Kg		86	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 880-31964-1 MS — **Client Sample ID: HB01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 60006 — **Prep Batch: 60009**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0996	0.09858		mg/Kg		99	70 - 130
Toluene	<0.00198	U	0.0996	0.09388		mg/Kg		94	70 - 130
Ethylbenzene	<0.00198	U	0.0996	0.08617		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.199	0.1902		mg/Kg		95	70 - 130
o-Xylene	<0.00198	U	0.0996	0.09140		mg/Kg		91	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-31964-1 MSD — **Client Sample ID: HB01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 60006 — **Prep Batch: 60009**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.100	0.1071		mg/Kg		107	70 - 130	8	35
Toluene	<0.00198	U	0.100	0.09043		mg/Kg		90	70 - 130	4	35
Ethylbenzene	<0.00198	U	0.100	0.08945		mg/Kg		89	70 - 130	4	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1865		mg/Kg		93	70 - 130	2	35
o-Xylene	<0.00198	U	0.100	0.08991		mg/Kg		89	70 - 130	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-60026/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 60037 — **Prep Batch: 60026**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/12/23 18:22	08/13/23 20:13	1

QC Sample Results

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31964-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-60026/1-A
Matrix: Solid
Analysis Batch: 60037

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60026

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/12/23 18:22	08/13/23 20:13	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/12/23 18:22	08/13/23 20:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*08/12/23 18:22*	*08/13/23 20:13*	*1*
o-Terphenyl	*123*		*70 - 130*	*08/12/23 18:22*	*08/13/23 20:13*	*1*

Lab Sample ID: LCS 880-60026/2-A
Matrix: Solid
Analysis Batch: 60037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60026

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	978.3		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	940.2		mg/Kg		94	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*118*		*70 - 130*
o-Terphenyl	*121*		*70 - 130*

Lab Sample ID: LCSD 880-60026/3-A
Matrix: Solid
Analysis Batch: 60037

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60026

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	912.6		mg/Kg		91	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	887.0		mg/Kg		89	70 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*116*		*70 - 130*
o-Terphenyl	*122*		*70 - 130*

Lab Sample ID: 880-31964-1 MS
Matrix: Solid
Analysis Batch: 60037

Client Sample ID: HB01
Prep Type: Total/NA
Prep Batch: 60026

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	998	982.6		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	136		998	958.2		mg/Kg		82	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*124*		*70 - 130*
o-Terphenyl	*108*		*70 - 130*

QC Sample Results

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31964-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-31964-1 MSD
Matrix: Solid
Analysis Batch: 60037

Client Sample ID: HB01
Prep Type: Total/NA
Prep Batch: 60026

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	998	1034		mg/Kg		102	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	136		998	1015		mg/Kg		88	70 - 130	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*131*	*S1+*	*70 - 130*
o-Terphenyl	*113*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-59961/1-A
Matrix: Solid
Analysis Batch: 60054

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/12/23 11:33	1

Lab Sample ID: LCS 880-59961/2-A
Matrix: Solid
Analysis Batch: 60054

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	252.8		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-59961/3-A
Matrix: Solid
Analysis Batch: 60054

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	254.6		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 880-31964-8 MS
Matrix: Solid
Analysis Batch: 60054

Client Sample ID: HB08
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	61.7	F1	251	274.4	F1	mg/Kg		85	90 - 110

Lab Sample ID: 880-31964-8 MSD
Matrix: Solid
Analysis Batch: 60054

Client Sample ID: HB08
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	61.7	F1	251	273.6	F1	mg/Kg		84	90 - 110	0	20

QC Association Summary

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31964-1

GC VOA

Analysis Batch: 60006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31964-1	HB01	Total/NA	Solid	8021B	60009
880-31964-2	HB02	Total/NA	Solid	8021B	60009
880-31964-3	HB03	Total/NA	Solid	8021B	60009
880-31964-4	HB04	Total/NA	Solid	8021B	60009
880-31964-5	HB05	Total/NA	Solid	8021B	60009
880-31964-6	HB06	Total/NA	Solid	8021B	60009
880-31964-7	HB07	Total/NA	Solid	8021B	60009
880-31964-8	HB08	Total/NA	Solid	8021B	60009
880-31964-9	HB09	Total/NA	Solid	8021B	60009
MB 880-60006/8	Method Blank	Total/NA	Solid	8021B	
MB 880-60009/5-A	Method Blank	Total/NA	Solid	8021B	60009
LCS 880-60009/1-A	Lab Control Sample	Total/NA	Solid	8021B	60009
LCSD 880-60009/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	60009
880-31964-1 MS	HB01	Total/NA	Solid	8021B	60009
880-31964-1 MSD	HB01	Total/NA	Solid	8021B	60009

Prep Batch: 60009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31964-1	HB01	Total/NA	Solid	5035	
880-31964-2	HB02	Total/NA	Solid	5035	
880-31964-3	HB03	Total/NA	Solid	5035	
880-31964-4	HB04	Total/NA	Solid	5035	
880-31964-5	HB05	Total/NA	Solid	5035	
880-31964-6	HB06	Total/NA	Solid	5035	
880-31964-7	HB07	Total/NA	Solid	5035	
880-31964-8	HB08	Total/NA	Solid	5035	
880-31964-9	HB09	Total/NA	Solid	5035	
MB 880-60009/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-60009/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-60009/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-31964-1 MS	HB01	Total/NA	Solid	5035	
880-31964-1 MSD	HB01	Total/NA	Solid	5035	

Analysis Batch: 60109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31964-1	HB01	Total/NA	Solid	Total BTEX	
880-31964-2	HB02	Total/NA	Solid	Total BTEX	
880-31964-3	HB03	Total/NA	Solid	Total BTEX	
880-31964-4	HB04	Total/NA	Solid	Total BTEX	
880-31964-5	HB05	Total/NA	Solid	Total BTEX	
880-31964-6	HB06	Total/NA	Solid	Total BTEX	
880-31964-7	HB07	Total/NA	Solid	Total BTEX	
880-31964-8	HB08	Total/NA	Solid	Total BTEX	
880-31964-9	HB09	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 60026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31964-1	HB01	Total/NA	Solid	8015NM Prep	
880-31964-2	HB02	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31964-1

GC Semi VOA (Continued)

Prep Batch: 60026 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31964-3	HB03	Total/NA	Solid	8015NM Prep	
880-31964-4	HB04	Total/NA	Solid	8015NM Prep	
880-31964-5	HB05	Total/NA	Solid	8015NM Prep	
880-31964-6	HB06	Total/NA	Solid	8015NM Prep	
880-31964-7	HB07	Total/NA	Solid	8015NM Prep	
880-31964-8	HB08	Total/NA	Solid	8015NM Prep	
880-31964-9	HB09	Total/NA	Solid	8015NM Prep	
MB 880-60026/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-60026/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-60026/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31964-1 MS	HB01	Total/NA	Solid	8015NM Prep	
880-31964-1 MSD	HB01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 60037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31964-1	HB01	Total/NA	Solid	8015B NM	60026
880-31964-2	HB02	Total/NA	Solid	8015B NM	60026
880-31964-3	HB03	Total/NA	Solid	8015B NM	60026
880-31964-4	HB04	Total/NA	Solid	8015B NM	60026
880-31964-5	HB05	Total/NA	Solid	8015B NM	60026
880-31964-6	HB06	Total/NA	Solid	8015B NM	60026
880-31964-7	HB07	Total/NA	Solid	8015B NM	60026
880-31964-8	HB08	Total/NA	Solid	8015B NM	60026
880-31964-9	HB09	Total/NA	Solid	8015B NM	60026
MB 880-60026/1-A	Method Blank	Total/NA	Solid	8015B NM	60026
LCS 880-60026/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	60026
LCSD 880-60026/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	60026
880-31964-1 MS	HB01	Total/NA	Solid	8015B NM	60026
880-31964-1 MSD	HB01	Total/NA	Solid	8015B NM	60026

Analysis Batch: 60223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31964-1	HB01	Total/NA	Solid	8015 NM	
880-31964-2	HB02	Total/NA	Solid	8015 NM	
880-31964-3	HB03	Total/NA	Solid	8015 NM	
880-31964-4	HB04	Total/NA	Solid	8015 NM	
880-31964-5	HB05	Total/NA	Solid	8015 NM	
880-31964-6	HB06	Total/NA	Solid	8015 NM	
880-31964-7	HB07	Total/NA	Solid	8015 NM	
880-31964-8	HB08	Total/NA	Solid	8015 NM	
880-31964-9	HB09	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 59961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31964-1	HB01	Soluble	Solid	DI Leach	
880-31964-2	HB02	Soluble	Solid	DI Leach	
880-31964-3	HB03	Soluble	Solid	DI Leach	
880-31964-4	HB04	Soluble	Solid	DI Leach	
880-31964-5	HB05	Soluble	Solid	DI Leach	

QC Association Summary

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31964-1

HPLC/IC (Continued)

Leach Batch: 59961 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31964-6	HB06	Soluble	Solid	DI Leach	
880-31964-7	HB07	Soluble	Solid	DI Leach	
880-31964-8	HB08	Soluble	Solid	DI Leach	
880-31964-9	HB09	Soluble	Solid	DI Leach	
MB 880-59961/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59961/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59961/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-31964-8 MS	HB08	Soluble	Solid	DI Leach	
880-31964-8 MSD	HB08	Soluble	Solid	DI Leach	

Analysis Batch: 60054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31964-1	HB01	Soluble	Solid	300.0	59961
880-31964-2	HB02	Soluble	Solid	300.0	59961
880-31964-3	HB03	Soluble	Solid	300.0	59961
880-31964-4	HB04	Soluble	Solid	300.0	59961
880-31964-5	HB05	Soluble	Solid	300.0	59961
880-31964-6	HB06	Soluble	Solid	300.0	59961
880-31964-7	HB07	Soluble	Solid	300.0	59961
880-31964-8	HB08	Soluble	Solid	300.0	59961
880-31964-9	HB09	Soluble	Solid	300.0	59961
MB 880-59961/1-A	Method Blank	Soluble	Solid	300.0	59961
LCS 880-59961/2-A	Lab Control Sample	Soluble	Solid	300.0	59961
LCSD 880-59961/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59961
880-31964-8 MS	HB08	Soluble	Solid	300.0	59961
880-31964-8 MSD	HB08	Soluble	Solid	300.0	59961

Lab Chronicle

Client: Resolute Compliance LLC
Job ID: 880-31964-1
Project/Site: Hackberry LACT

Client Sample ID: HB01
Lab Sample ID: 880-31964-1
Date Collected: 08/11/23 09:05
Matrix: Solid
Date Received: 08/11/23 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	60009	08/12/23 14:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60006	08/13/23 08:20	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60109	08/14/23 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			60223	08/14/23 22:11	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	60026	08/12/23 18:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60037	08/13/23 21:21	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	59961	08/11/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60054	08/12/23 12:30	SMC	EET MID

Client Sample ID: HB02
Lab Sample ID: 880-31964-2
Date Collected: 08/11/23 09:10
Matrix: Solid
Date Received: 08/11/23 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	60009	08/12/23 14:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60006	08/13/23 08:40	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60109	08/14/23 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			60223	08/14/23 22:11	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	60026	08/12/23 18:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60037	08/13/23 22:28	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	59961	08/11/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60054	08/12/23 12:37	SMC	EET MID

Client Sample ID: HB03
Lab Sample ID: 880-31964-3
Date Collected: 08/11/23 09:15
Matrix: Solid
Date Received: 08/11/23 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	60009	08/12/23 14:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60006	08/13/23 09:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60109	08/14/23 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			60223	08/14/23 22:11	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	60026	08/12/23 18:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60037	08/13/23 22:50	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	59961	08/11/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60054	08/12/23 12:58	SMC	EET MID

Client Sample ID: HB04
Lab Sample ID: 880-31964-4
Date Collected: 08/11/23 09:20
Matrix: Solid
Date Received: 08/11/23 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	60009	08/12/23 14:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60006	08/13/23 09:21	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60109	08/14/23 11:31	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Resolute Compliance LLC
Job ID: 880-31964-1
Project/Site: Hackberry LACT

Client Sample ID: HB04
Lab Sample ID: 880-31964-4
Date Collected: 08/11/23 09:20
Matrix: Solid
Date Received: 08/11/23 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			60223	08/14/23 22:11	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	60026	08/12/23 18:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60037	08/13/23 23:11	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	59961	08/11/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60054	08/12/23 13:05	SMC	EET MID

Client Sample ID: HB05
Lab Sample ID: 880-31964-5
Date Collected: 08/11/23 09:25
Matrix: Solid
Date Received: 08/11/23 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	60009	08/12/23 14:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60006	08/13/23 09:41	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60109	08/14/23 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			60223	08/14/23 22:11	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	60026	08/12/23 18:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60037	08/13/23 23:33	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	59961	08/11/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60054	08/12/23 13:13	SMC	EET MID

Client Sample ID: HB06
Lab Sample ID: 880-31964-6
Date Collected: 08/11/23 09:30
Matrix: Solid
Date Received: 08/11/23 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	60009	08/12/23 14:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60006	08/13/23 10:02	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60109	08/14/23 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			60223	08/14/23 22:11	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	60026	08/12/23 18:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60037	08/13/23 23:55	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	59961	08/11/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60054	08/12/23 13:20	SMC	EET MID

Client Sample ID: HB07
Lab Sample ID: 880-31964-7
Date Collected: 08/11/23 09:35
Matrix: Solid
Date Received: 08/11/23 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	60009	08/12/23 14:43	EL	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	60006	08/13/23 11:23	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60109	08/14/23 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			60223	08/14/23 22:11	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	60026	08/12/23 18:22	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	60037	08/14/23 07:03	SM	EET MID

Lab Chronicle

Client: Resolute Compliance LLC
Job ID: 880-31964-1
Project/Site: Hackberry LACT

Client Sample ID: HB07
Lab Sample ID: 880-31964-7
Date Collected: 08/11/23 09:35
Matrix: Solid
Date Received: 08/11/23 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	59961	08/11/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60054	08/12/23 13:27	SMC	EET MID

Client Sample ID: HB08
Lab Sample ID: 880-31964-8
Date Collected: 08/11/23 09:40
Matrix: Solid
Date Received: 08/11/23 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	60009	08/12/23 14:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60006	08/13/23 10:22	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60109	08/14/23 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			60223	08/14/23 22:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	60026	08/12/23 18:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60037	08/14/23 00:16	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59961	08/11/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60054	08/12/23 13:34	SMC	EET MID

Client Sample ID: HB09
Lab Sample ID: 880-31964-9
Date Collected: 08/11/23 09:45
Matrix: Solid
Date Received: 08/11/23 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	60009	08/12/23 14:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60006	08/13/23 10:43	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60109	08/14/23 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			60223	08/14/23 22:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	60026	08/12/23 18:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60037	08/14/23 00:38	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	59961	08/11/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60054	08/12/23 13:56	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31964-1

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31964-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31964-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31964-1	HB01	Solid	08/11/23 09:05	08/11/23 14:00
880-31964-2	HB02	Solid	08/11/23 09:10	08/11/23 14:00
880-31964-3	HB03	Solid	08/11/23 09:15	08/11/23 14:00
880-31964-4	HB04	Solid	08/11/23 09:20	08/11/23 14:00
880-31964-5	HB05	Solid	08/11/23 09:25	08/11/23 14:00
880-31964-6	HB06	Solid	08/11/23 09:30	08/11/23 14:00
880-31964-7	HB07	Solid	08/11/23 09:35	08/11/23 14:00
880-31964-8	HB08	Solid	08/11/23 09:40	08/11/23 14:00
880-31964-9	HB09	Solid	08/11/23 09:45	08/11/23 14:00

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392 7550 Carlsbad, NM (575) 988-3199

880-31964 Chain of Custody

Project Manager·	Grant McAfee	Bill to· (if different)	
Company Name·	Resolute	Company Name	
Address.		Address	
City, State ZIP·		City, State ZIP·	
Phone·	Email		

Work Order Comments

Program· UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables. EDD ☐ ADaPT ☐ Other·

Project Name·	Hackberry LACT	Turn Around	
Project Number·		☐ Routine ☒ Rush	
Project Location		Due Date	3 day
Sampler's Name·		TAT starts the day received by the lab, if received by 4:30pm	
PO #			

SAMPLE RECEIPT			
Temp Blank.	Yes (No)	Wet Ice·	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID·	5168
Cooler Custody Seals:	Yes No (N/A)	Correction Factor·	-.30
Sample Custody Seals:	Yes No (N/A)	Temperature Reading·	6.8
Total Containers.		Corrected Temperature·	6.5

Preservative Codes

None NO · DI Water· H_2O
Cool Cool · MeOH Me
HCL. HC · HNO_3 HN
H_2SO_4 H_2 · NaOH Na
H_3PO_4 HP
$NaHSO_4$. NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid. SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH SCIS	BTEX	Chloride	Sample Comments
HB01	S	8/11/23	0705		G	1		X	X	X	
HB02			0910								
HB03			0915								
HB04			0920								
HB05			0925								
HB06			0930								
HB07			0935								
HB08			0940								
HB09	↓	↓	0945		↓	↓		↓	↓	↓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by· (Signature)	Received by· (Signature)	Date/Time	Relinquished by· (Signature)	Received by· (Signature)	Date/Time
1		8/11/23 1400	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev 2020.2

Login Sample Receipt Checklist

Client: Resolute Compliance LLC Job Number: 880-31964-1

Login Number: 31964 **List Source: Eurofins Midland**
List Number: 1
Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Grant McAfee
Resolute Compliance LLC
115 FM 2453
Suite A
Royse City, Texas 75189

Generated 8/23/2023 11:54:33 AM

JOB DESCRIPTION

Hackberry LACT

JOB NUMBER

880-31894-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

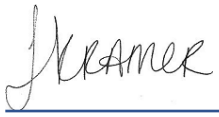
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
8/23/2023 11:54:33 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Laboratory Job ID: 880-31894-1

Table of Contents

Definitions/Glossary

Client: Resolute Compliance LLC Job ID: 880-31894-1
Project/Site: Hackberry LACT

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31894-1

Job ID: 880-31894-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-31894-1

Receipt
The samples were received on 8/10/2023 9:04 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.3°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: LM HB 10 (880-31894-1), LM HB 11 (880-31894-2), LM HB 12 (880-31894-3) and LM HB 13 (880-31894-4).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: LM HB 12 (880-31894-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-60581 and analytical batch 880-60780 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: The method blank for preparation batch 880-60581 and analytical batch 880-60780 contained Benzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-60604 and analytical batch 880-60630 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: LM HB 10 (880-31894-1), LM HB 11 (880-31894-2), LM HB 12 (880-31894-3), LM HB 13 (880-31894-4), (880-32303-A-21-B), (880-32303-A-21-C MS) and (880-32303-A-21-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-60630/31), (CCV 880-60630/47), (CCV 880-60630/58) and (LCSD 880-60604/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-60604 and analytical batch 880-60630 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-60604 and analytical batch 880-60630 was outside control limits. Sample non-homogeneity is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31894-1

Client Sample ID: LM HB 10

Date Collected: 08/09/23 13:30
Date Received: 08/10/23 09:04

Lab Sample ID: 880-31894-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/18/23 15:00	08/22/23 16:33	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/18/23 15:00	08/22/23 16:33	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/18/23 15:00	08/22/23 16:33	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/18/23 15:00	08/22/23 16:33	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/18/23 15:00	08/22/23 16:33	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/18/23 15:00	08/22/23 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*08/18/23 15:00*	*08/22/23 16:33*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*08/18/23 15:00*	*08/22/23 16:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			08/23/23 12:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/21/23 14:40	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/18/23 18:11	08/21/23 02:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/18/23 18:11	08/21/23 02:05	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/18/23 18:11	08/21/23 02:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*08/18/23 18:11*	*08/21/23 02:05*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*08/18/23 18:11*	*08/21/23 02:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**67.1**		5.02		mg/Kg			08/11/23 21:46	1

Client Sample ID: LM HB 11

Date Collected: 08/09/23 13:35
Date Received: 08/10/23 09:04

Lab Sample ID: 880-31894-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/18/23 15:00	08/22/23 16:54	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/18/23 15:00	08/22/23 16:54	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/18/23 15:00	08/22/23 16:54	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/18/23 15:00	08/22/23 16:54	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/18/23 15:00	08/22/23 16:54	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/18/23 15:00	08/22/23 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*08/18/23 15:00*	*08/22/23 16:54*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*08/18/23 15:00*	*08/22/23 16:54*	*1*

Client Sample Results

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31894-1

Client Sample ID: LM HB 11

Date Collected: 08/09/23 13:35
Date Received: 08/10/23 09:04

Lab Sample ID: 880-31894-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			08/23/23 12:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**112**		50.0		mg/Kg			08/21/23 14:40	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/18/23 18:11	08/21/23 02:26	1
Diesel Range Organics (Over C10-C28)	**112**		50.0		mg/Kg		08/18/23 18:11	08/21/23 02:26	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/18/23 18:11	08/21/23 02:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*129*		*70 - 130*	*08/18/23 18:11*	*08/21/23 02:26*	*1*
o-Terphenyl	*139*	*S1+*	*70 - 130*	*08/18/23 18:11*	*08/21/23 02:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**87.3**		4.99		mg/Kg			08/11/23 22:06	1

Client Sample ID: LM HB 12

Date Collected: 08/09/23 13:40
Date Received: 08/10/23 09:04

Lab Sample ID: 880-31894-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/23 15:00	08/22/23 17:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/23 15:00	08/22/23 17:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/23 15:00	08/22/23 17:14	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/18/23 15:00	08/22/23 17:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/23 15:00	08/22/23 17:14	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/18/23 15:00	08/22/23 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*08/18/23 15:00*	*08/22/23 17:14*	*1*
1,4-Difluorobenzene (Surr)	*57*	*S1-*	*70 - 130*	*08/18/23 15:00*	*08/22/23 17:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/23/23 12:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			08/21/23 14:40	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		08/18/23 18:11	08/21/23 02:48	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		08/18/23 18:11	08/21/23 02:48	1

Client Sample Results

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31894-1

Client Sample ID: LM HB 12

Date Collected: 08/09/23 13:40
Date Received: 08/10/23 09:04

Lab Sample ID: 880-31894-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/18/23 18:11	08/21/23 02:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*147*	*S1+*	*70 - 130*	*08/18/23 18:11*	*08/21/23 02:48*	*1*
o-Terphenyl	*154*	*S1+*	*70 - 130*	*08/18/23 18:11*	*08/21/23 02:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**99.2**		4.98		mg/Kg			08/11/23 22:13	1

Client Sample ID: LM HB 13

Date Collected: 08/09/23 13:45
Date Received: 08/10/23 09:04

Lab Sample ID: 880-31894-4
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/18/23 15:00	08/22/23 17:35	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/18/23 15:00	08/22/23 17:35	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/18/23 15:00	08/22/23 17:35	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/18/23 15:00	08/22/23 17:35	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/18/23 15:00	08/22/23 17:35	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/18/23 15:00	08/22/23 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*08/18/23 15:00*	*08/22/23 17:35*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*08/18/23 15:00*	*08/22/23 17:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			08/23/23 12:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			08/21/23 14:40	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		08/18/23 18:11	08/21/23 03:09	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		08/18/23 18:11	08/21/23 03:09	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/18/23 18:11	08/21/23 03:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*156*	*S1+*	*70 - 130*	*08/18/23 18:11*	*08/21/23 03:09*	*1*
o-Terphenyl	*165*	*S1+*	*70 - 130*	*08/18/23 18:11*	*08/21/23 03:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**93.3**		5.04		mg/Kg			08/11/23 22:19	1

Surrogate Summary

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31894-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-31831-A-1-C MS	Matrix Spike	108	115
880-31831-A-1-D MSD	Matrix Spike Duplicate	117	129
880-31894-1	LM HB 10	97	77
880-31894-2	LM HB 11	98	74
880-31894-3	LM HB 12	98	57 S1-
880-31894-4	LM HB 13	99	83
LCS 880-60581/1-A	Lab Control Sample	115	114
LCSD 880-60581/2-A	Lab Control Sample Dup	120	111
MB 880-60581/5-A	Method Blank	73	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-31894-1	LM HB 10	122	131 S1+
880-31894-2	LM HB 11	129	139 S1+
880-31894-3	LM HB 12	147 S1+	154 S1+
880-31894-4	LM HB 13	156 S1+	165 S1+
880-32303-A-21-C MS	Matrix Spike	134 S1+	134 S1+
880-32303-A-21-D MSD	Matrix Spike Duplicate	155 S1+	150 S1+
LCS 880-60604/2-A	Lab Control Sample	104	116
LCSD 880-60604/3-A	Lab Control Sample Dup	128	143 S1+
MB 880-60604/1-A	Method Blank	137 S1+	155 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31894-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-60581/5-A
Matrix: Solid
Analysis Batch: 60780

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60581

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/23 15:00	08/22/23 11:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/23 15:00	08/22/23 11:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/23 15:00	08/22/23 11:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/18/23 15:00	08/22/23 11:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/23 15:00	08/22/23 11:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/18/23 15:00	08/22/23 11:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*73*		*70 - 130*	*08/18/23 15:00*	*08/22/23 11:44*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/18/23 15:00*	*08/22/23 11:44*	*1*

Lab Sample ID: LCS 880-60581/1-A
Matrix: Solid
Analysis Batch: 60780

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60581

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1021		mg/Kg		102	70 - 130
Toluene	0.100	0.1127		mg/Kg		113	70 - 130
Ethylbenzene	0.100	0.1113		mg/Kg		111	70 - 130
m-Xylene & p-Xylene	0.200	0.2489		mg/Kg		124	70 - 130
o-Xylene	0.100	0.1285		mg/Kg		129	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

Lab Sample ID: LCSD 880-60581/2-A
Matrix: Solid
Analysis Batch: 60780

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60581

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1065		mg/Kg		107	70 - 130	4	35
Toluene	0.100	0.1182		mg/Kg		118	70 - 130	5	35
Ethylbenzene	0.100	0.1163		mg/Kg		116	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2583		mg/Kg		129	70 - 130	4	35
o-Xylene	0.100	0.1303		mg/Kg		130	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: 880-31831-A-1-C MS
Matrix: Solid
Analysis Batch: 60780

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 60581

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U F1 F2	0.0996	0.06171	F1	mg/Kg		61	70 - 130
Toluene	<0.00198	U F1 F2	0.0996	0.05424	F1	mg/Kg		54	70 - 130

QC Sample Results

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31894-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-31831-A-1-C MS
Matrix: Solid
Analysis Batch: 60780

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 60581

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U F1 F2	0.0996	0.04807	F1	mg/Kg		48	70 - 130
m-Xylene & p-Xylene	<0.00396	U F1 F2	0.199	0.09365	F1	mg/Kg		47	70 - 130
o-Xylene	<0.00198	U F1	0.0996	0.05366	F1	mg/Kg		54	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*

Lab Sample ID: 880-31831-A-1-D MSD
Matrix: Solid
Analysis Batch: 60780

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 60581

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U F1 F2	0.0994	0.1003	F2	mg/Kg		100	70 - 130	48	35
Toluene	<0.00198	U F1 F2	0.0994	0.08992	F2	mg/Kg		90	70 - 130	49	35
Ethylbenzene	<0.00198	U F1 F2	0.0994	0.07216	F2	mg/Kg		73	70 - 130	40	35
m-Xylene & p-Xylene	<0.00396	U F1 F2	0.199	0.1549	F2	mg/Kg		78	70 - 130	49	35
o-Xylene	<0.00198	U F1	0.0994	0.07602		mg/Kg		76	70 - 130	34	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*129*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-60604/1-A
Matrix: Solid
Analysis Batch: 60630

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60604

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/18/23 18:11	08/20/23 19:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/18/23 18:11	08/20/23 19:33	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/18/23 18:11	08/20/23 19:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*137*	*S1+*	*70 - 130*	*08/18/23 18:11*	*08/20/23 19:33*	*1*
o-Terphenyl	*155*	*S1+*	*70 - 130*	*08/18/23 18:11*	*08/20/23 19:33*	*1*

Lab Sample ID: LCS 880-60604/2-A
Matrix: Solid
Analysis Batch: 60630

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60604

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1056		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1002		mg/Kg		100	70 - 130

QC Sample Results

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31894-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-60604/2-A
Matrix: Solid
Analysis Batch: 60630

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60604

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	116		70 - 130

Lab Sample ID: LCSD 880-60604/3-A
Matrix: Solid
Analysis Batch: 60630

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60604

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1024		mg/Kg		102	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1053		mg/Kg		105	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	128		70 - 130
o-Terphenyl	143	S1+	70 - 130

Lab Sample ID: 880-32303-A-21-C MS
Matrix: Solid
Analysis Batch: 60630

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 60604

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.3	U F2	994	904.1		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	<50.3	U	994	1089		mg/Kg		107	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	134	S1+	70 - 130
o-Terphenyl	134	S1+	70 - 130

Lab Sample ID: 880-32303-A-21-D MSD
Matrix: Solid
Analysis Batch: 60630

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 60604

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.3	U F2	994	1226	F2	mg/Kg		120	70 - 130	30	20
Diesel Range Organics (Over C10-C28)	<50.3	U	994	1247		mg/Kg		123	70 - 130	14	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	155	S1+	70 - 130
o-Terphenyl	150	S1+	70 - 130

QC Sample Results

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31894-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-59887/1-A
Matrix: Solid
Analysis Batch: 60020

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/11/23 21:26	1

Lab Sample ID: LCS 880-59887/2-A
Matrix: Solid
Analysis Batch: 60020

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	261.8		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-59887/3-A
Matrix: Solid
Analysis Batch: 60020

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	262.0		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-31894-1 MS
Matrix: Solid
Analysis Batch: 60020

Client Sample ID: LM HB 10
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	67.1		251	322.4		mg/Kg		102	90 - 110		

Lab Sample ID: 880-31894-1 MSD
Matrix: Solid
Analysis Batch: 60020

Client Sample ID: LM HB 10
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	67.1		251	321.9		mg/Kg		101	90 - 110	0	20

QC Association Summary

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31894-1

GC VOA

Prep Batch: 60581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31894-1	LM HB 10	Total/NA	Solid	5035	
880-31894-2	LM HB 11	Total/NA	Solid	5035	
880-31894-3	LM HB 12	Total/NA	Solid	5035	
880-31894-4	LM HB 13	Total/NA	Solid	5035	
MB 880-60581/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-60581/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-60581/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-31831-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-31831-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 60780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31894-1	LM HB 10	Total/NA	Solid	8021B	60581
880-31894-2	LM HB 11	Total/NA	Solid	8021B	60581
880-31894-3	LM HB 12	Total/NA	Solid	8021B	60581
880-31894-4	LM HB 13	Total/NA	Solid	8021B	60581
MB 880-60581/5-A	Method Blank	Total/NA	Solid	8021B	60581
LCS 880-60581/1-A	Lab Control Sample	Total/NA	Solid	8021B	60581
LCSD 880-60581/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	60581
880-31831-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	60581
880-31831-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	60581

Analysis Batch: 60917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31894-1	LM HB 10	Total/NA	Solid	Total BTEX	
880-31894-2	LM HB 11	Total/NA	Solid	Total BTEX	
880-31894-3	LM HB 12	Total/NA	Solid	Total BTEX	
880-31894-4	LM HB 13	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 60604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31894-1	LM HB 10	Total/NA	Solid	8015NM Prep	
880-31894-2	LM HB 11	Total/NA	Solid	8015NM Prep	
880-31894-3	LM HB 12	Total/NA	Solid	8015NM Prep	
880-31894-4	LM HB 13	Total/NA	Solid	8015NM Prep	
MB 880-60604/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-60604/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-60604/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-32303-A-21-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-32303-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 60630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31894-1	LM HB 10	Total/NA	Solid	8015B NM	60604
880-31894-2	LM HB 11	Total/NA	Solid	8015B NM	60604
880-31894-3	LM HB 12	Total/NA	Solid	8015B NM	60604
880-31894-4	LM HB 13	Total/NA	Solid	8015B NM	60604
MB 880-60604/1-A	Method Blank	Total/NA	Solid	8015B NM	60604
LCS 880-60604/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	60604

QC Association Summary

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31894-1

GC Semi VOA (Continued)

Analysis Batch: 60630 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-60604/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	60604
880-32303-A-21-C MS	Matrix Spike	Total/NA	Solid	8015B NM	60604
880-32303-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	60604

Analysis Batch: 60748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31894-1	LM HB 10	Total/NA	Solid	8015 NM	
880-31894-2	LM HB 11	Total/NA	Solid	8015 NM	
880-31894-3	LM HB 12	Total/NA	Solid	8015 NM	
880-31894-4	LM HB 13	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 59887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31894-1	LM HB 10	Soluble	Solid	DI Leach	
880-31894-2	LM HB 11	Soluble	Solid	DI Leach	
880-31894-3	LM HB 12	Soluble	Solid	DI Leach	
880-31894-4	LM HB 13	Soluble	Solid	DI Leach	
MB 880-59887/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59887/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59887/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-31894-1 MS	LM HB 10	Soluble	Solid	DI Leach	
880-31894-1 MSD	LM HB 10	Soluble	Solid	DI Leach	

Analysis Batch: 60020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31894-1	LM HB 10	Soluble	Solid	300.0	59887
880-31894-2	LM HB 11	Soluble	Solid	300.0	59887
880-31894-3	LM HB 12	Soluble	Solid	300.0	59887
880-31894-4	LM HB 13	Soluble	Solid	300.0	59887
MB 880-59887/1-A	Method Blank	Soluble	Solid	300.0	59887
LCS 880-59887/2-A	Lab Control Sample	Soluble	Solid	300.0	59887
LCSD 880-59887/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59887
880-31894-1 MS	LM HB 10	Soluble	Solid	300.0	59887
880-31894-1 MSD	LM HB 10	Soluble	Solid	300.0	59887

Lab Chronicle

Client: Resolute Compliance LLC
Job ID: 880-31894-1
Project/Site: Hackberry LACT

Client Sample ID: LM HB 10
Lab Sample ID: 880-31894-1
Date Collected: 08/09/23 13:30
Matrix: Solid
Date Received: 08/10/23 09:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	60581	08/18/23 15:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60780	08/22/23 16:33	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			60917	08/23/23 12:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			60748	08/21/23 14:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	60604	08/18/23 18:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60630	08/21/23 02:05	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59887	08/10/23 16:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60020	08/11/23 21:46	SMC	EET MID

Client Sample ID: LM HB 11
Lab Sample ID: 880-31894-2
Date Collected: 08/09/23 13:35
Matrix: Solid
Date Received: 08/10/23 09:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	60581	08/18/23 15:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60780	08/22/23 16:54	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			60917	08/23/23 12:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			60748	08/21/23 14:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	60604	08/18/23 18:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60630	08/21/23 02:26	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	59887	08/10/23 16:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60020	08/11/23 22:06	SMC	EET MID

Client Sample ID: LM HB 12
Lab Sample ID: 880-31894-3
Date Collected: 08/09/23 13:40
Matrix: Solid
Date Received: 08/10/23 09:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	60581	08/18/23 15:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60780	08/22/23 17:14	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			60917	08/23/23 12:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			60748	08/21/23 14:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	60604	08/18/23 18:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60630	08/21/23 02:48	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	59887	08/10/23 16:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60020	08/11/23 22:13	SMC	EET MID

Client Sample ID: LM HB 13
Lab Sample ID: 880-31894-4
Date Collected: 08/09/23 13:45
Matrix: Solid
Date Received: 08/10/23 09:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	60581	08/18/23 15:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60780	08/22/23 17:35	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			60917	08/23/23 12:35	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Resolute Compliance LLC
Job ID: 880-31894-1
Project/Site: Hackberry LACT

Client Sample ID: LM HB 13
Lab Sample ID: 880-31894-4

Date Collected: 08/09/23 13:45
Matrix: Solid

Date Received: 08/10/23 09:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			60748	08/21/23 14:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	60604	08/18/23 18:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60630	08/21/23 03:09	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	59887	08/10/23 16:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60020	08/11/23 22:19	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31894-1

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31894-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Resolute Compliance LLC
Project/Site: Hackberry LACT

Job ID: 880-31894-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31894-1	LM HB 10	Solid	08/09/23 13:30	08/10/23 09:04
880-31894-2	LM HB 11	Solid	08/09/23 13:35	08/10/23 09:04
880-31894-3	LM HB 12	Solid	08/09/23 13:40	08/10/23 09:04
880-31894-4	LM HB 13	Solid	08/09/23 13:45	08/10/23 09:04

CUSTODY RECORD and ANALYSIS REQUEST

IN-RANGE Environmental Consulting

Daniel Archer Owner/Operator
432-741-1529
6911 Burnett Ln. Midland Tx, 79705
InRangeEnvironmental@gmail.com

Results to: Grant McAfee
Address: gm@resolutecompliance.com
Phone: 214 912 7945
Fax:
Project Name/Number: Huckleberry LACT

Sampling BY: 202 5.6/5.3
In Range

Sampling Identification:	# of Containers	Matrix: Water	Soil	Sludge	Other	Preserved: HNO3 (N)	H2SO4 (S)	HCL (C)	Ice/Ref (I)	None (N)	Other (O)	Sampling: Date	Time	Analysis Requested: BTEX	Chlorides	TPH 8015
Lm HB 10	1		X						X			8/1/23	1330	X	X	X
Lm HB 11	1		X						X				1335			
Lm HB 12	1		X						X				1340			
Lm HB 13	1		X						X			↓	1345	↓	↓	↓

880-31894 Chain of Custody

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	8/10/23		[signature]	8/10/23	904

Remarks:
Leg Samples in under Resolute Compliance
Standard TAT

Page ____ of ____

Login Sample Receipt Checklist

Client: Resolute Compliance LLC Job Number: 880-31894-1

Login Number: 31894 **List Source: Eurofins Midland**
List Number: 1
Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Grant McAfee
Resolute Compliance LLC
115 FM 2453
Suite A
Royse City, Texas 75189

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JOB DESCRIPTION

JOB NUMBER

890-5128-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

my EOL

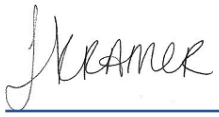
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Resolute Compliance LLC
Project/Site:

Laboratory Job ID: 890-5128-1

Table of Contents

Definitions/Glossary

Client: Resolute Compliance LLC Job ID: 890-5128-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Resolute Compliance LLC
Job ID: 890-5128-1

Job ID: 890-5128-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-5128-1

Receipt
The sample was received on 8/18/2023 11:55 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.6°C

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: HB-07 (890-5128-1).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-60741 and analytical batch 880-60776 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-5126-A-1-D) and (890-5126-A-1-E MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-60776/20) and (CCV 880-60776/5). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Resolute Compliance LLC
Job ID: 890-5128-1

Client Sample ID: HB-07
Lab Sample ID: 890-5128-1

Date Collected: 08/18/23 00:00
Matrix: Solid

Date Received: 08/18/23 11:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/24/23 09:32	08/24/23 14:38	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/24/23 09:32	08/24/23 14:38	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/24/23 09:32	08/24/23 14:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/24/23 09:32	08/24/23 14:38	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/24/23 09:32	08/24/23 14:38	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/24/23 09:32	08/24/23 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*08/24/23 09:32*	*08/24/23 14:38*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*08/24/23 09:32*	*08/24/23 14:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/24/23 16:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			08/23/23 11:00	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		08/21/23 14:10	08/22/23 12:16	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		08/21/23 14:10	08/22/23 12:16	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/21/23 14:10	08/22/23 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*08/21/23 14:10*	*08/22/23 12:16*	*1*
o-Terphenyl	*107*		*70 - 130*	*08/21/23 14:10*	*08/22/23 12:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**78.3**		5.02		mg/Kg			08/21/23 13:39	1

Surrogate Summary

Client: Resolute Compliance LLC Job ID: 890-5128-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-32411-A-1-B MS	Matrix Spike	89	93
880-32411-A-1-C MSD	Matrix Spike Duplicate	79	96
890-5128-1	HB-07	77	99
LCS 880-60970/1-A	Lab Control Sample	74	88
LCSD 880-60970/2-A	Lab Control Sample Dup	92	89
MB 880-60970/5-A	Method Blank	95	112

Percent Surrogate Recovery (Acceptance Limits)

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-5126-A-1-E MS	Matrix Spike	133 S1+	104
890-5126-A-1-F MSD	Matrix Spike Duplicate	129	101
890-5128-1	HB-07	120	107
LCS 880-60741/2-A	Lab Control Sample	107	91
LCSD 880-60741/3-A	Lab Control Sample Dup	123	106
MB 880-60741/1-A	Method Blank	187 S1+	168 S1+

Percent Surrogate Recovery (Acceptance Limits)

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Resolute Compliance LLC

Job ID: 890-5128-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-60970/5-A
Matrix: Solid
Analysis Batch: 60963

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60970

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/24/23 09:32	08/24/23 13:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/24/23 09:32	08/24/23 13:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/24/23 09:32	08/24/23 13:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/24/23 09:32	08/24/23 13:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/24/23 09:32	08/24/23 13:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/24/23 09:32	08/24/23 13:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*08/24/23 09:32*	*08/24/23 13:28*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*08/24/23 09:32*	*08/24/23 13:28*	*1*

Lab Sample ID: LCS 880-60970/1-A
Matrix: Solid
Analysis Batch: 60963

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60970

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08894		mg/Kg		89	70 - 130		
Toluene			0.100	0.09456		mg/Kg		95	70 - 130		
Ethylbenzene			0.100	0.07908		mg/Kg		79	70 - 130		
m-Xylene & p-Xylene			0.200	0.1497		mg/Kg		75	70 - 130		
o-Xylene			0.100	0.07027		mg/Kg		70	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*

Lab Sample ID: LCSD 880-60970/2-A
Matrix: Solid
Analysis Batch: 60963

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60970

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1011		mg/Kg		101	70 - 130	13	35
Toluene			0.100	0.1041		mg/Kg		104	70 - 130	10	35
Ethylbenzene			0.100	0.09884		mg/Kg		99	70 - 130	22	35
m-Xylene & p-Xylene			0.200	0.2018		mg/Kg		101	70 - 130	30	35
o-Xylene			0.100	0.09357		mg/Kg		94	70 - 130	28	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: 880-32411-A-1-B MS
Matrix: Solid
Analysis Batch: 60963

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 60970

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.0996	0.09051		mg/Kg		91	70 - 130		
Toluene	<0.00199	U	0.0996	0.09517		mg/Kg		95	70 - 130		
Ethylbenzene	<0.00199	U	0.0996	0.08335		mg/Kg		84	70 - 130		

QC Sample Results

Client: Resolute Compliance LLC Job ID: 890-5128-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-32411-A-1-B MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 60963 **Prep Batch: 60970**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1593		mg/Kg		80	70 - 130
o-Xylene	<0.00199	U	0.0996	0.07229		mg/Kg		72	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 880-32411-A-1-C MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 60963 **Prep Batch: 60970**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.09915		mg/Kg		99	70 - 130	9	35
Toluene	<0.00199	U	0.100	0.09538		mg/Kg		94	70 - 130	0	35
Ethylbenzene	<0.00199	U	0.100	0.07873		mg/Kg		79	70 - 130	6	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1546		mg/Kg		77	70 - 130	3	35
o-Xylene	<0.00199	U	0.100	0.07085		mg/Kg		70	70 - 130	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-60741/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 60776 **Prep Batch: 60741**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/21/23 14:10	08/22/23 08:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/21/23 14:10	08/22/23 08:13	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/21/23 14:10	08/22/23 08:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*187*	*S1+*	*70 - 130*	*08/21/23 14:10*	*08/22/23 08:13*	*1*
o-Terphenyl	*168*	*S1+*	*70 - 130*	*08/21/23 14:10*	*08/22/23 08:13*	*1*

Lab Sample ID: LCS 880-60741/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 60776 **Prep Batch: 60741**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	938.0		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	881.7		mg/Kg		88	70 - 130

QC Sample Results

Client: Resolute Compliance LLC Job ID: 890-5128-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-60741/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 60776 **Prep Batch: 60741**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: LCSD 880-60741/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 60776 **Prep Batch: 60741**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1012		mg/Kg		101	70 - 130	8	20
Diesel Range Organics (Over C10-C28)			1000	995.8		mg/Kg		100	70 - 130	12	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	123		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: 890-5126-A-1-E MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 60776 **Prep Batch: 60741**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	995	1258		mg/Kg		124	70 - 130
Diesel Range Organics (Over C10-C28)	<49.6	U	995	1150		mg/Kg		114	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	133	S1+	70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 890-5126-A-1-F MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 60776 **Prep Batch: 60741**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	995	1241		mg/Kg		123	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.6	U	995	1117		mg/Kg		111	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	129		70 - 130
o-Terphenyl	101		70 - 130

QC Sample Results

Client: Resolute Compliance LLC
Job ID: 890-5128-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-60724/1-A
Matrix: Solid
Analysis Batch: 60729

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/21/23 12:56	1

Lab Sample ID: LCS 880-60724/2-A
Matrix: Solid
Analysis Batch: 60729

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	252.7		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-60724/3-A
Matrix: Solid
Analysis Batch: 60729

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	253.2		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-5126-A-1-B MS
Matrix: Solid
Analysis Batch: 60729

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	77.2		250	314.7		mg/Kg		95	90 - 110		

Lab Sample ID: 890-5126-A-1-C MSD
Matrix: Solid
Analysis Batch: 60729

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	77.2		250	316.5		mg/Kg		96	90 - 110	1	20

QC Association Summary

Client: Resolute Compliance LLC Job ID: 890-5128-1

GC VOA

Analysis Batch: 60963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5128-1	HB-07	Total/NA	Solid	8021B	60970
MB 880-60970/5-A	Method Blank	Total/NA	Solid	8021B	60970
LCS 880-60970/1-A	Lab Control Sample	Total/NA	Solid	8021B	60970
LCSD 880-60970/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	60970
880-32411-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	60970
880-32411-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	60970

Prep Batch: 60970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5128-1	HB-07	Total/NA	Solid	5035	
MB 880-60970/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-60970/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-60970/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-32411-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-32411-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 61034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5128-1	HB-07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 60741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5128-1	HB-07	Total/NA	Solid	8015NM Prep	
MB 880-60741/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-60741/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-60741/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5126-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5126-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 60776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5128-1	HB-07	Total/NA	Solid	8015B NM	60741
MB 880-60741/1-A	Method Blank	Total/NA	Solid	8015B NM	60741
LCS 880-60741/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	60741
LCSD 880-60741/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	60741
890-5126-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	60741
890-5126-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	60741

Analysis Batch: 60896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5128-1	HB-07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 60724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5128-1	HB-07	Soluble	Solid	DI Leach	
MB 880-60724/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-60724/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-60724/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5126-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	

QC Association Summary

Client: Resolute Compliance LLC
Job ID: 890-5128-1

HPLC/IC (Continued)

Leach Batch: 60724 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5126-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 60729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5128-1	HB-07	Soluble	Solid	300.0	60724
MB 880-60724/1-A	Method Blank	Soluble	Solid	300.0	60724
LCS 880-60724/2-A	Lab Control Sample	Soluble	Solid	300.0	60724
LCSD 880-60724/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	60724
890-5126-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	60724
890-5126-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	60724

Lab Chronicle

Client Sample ID: HB-07
Date Collected: 08/18/23 00:00
Date Received: 08/18/23 11:55

Lab Sample ID: 890-5128-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	60970	08/24/23 09:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60963	08/24/23 14:38	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61034	08/24/23 16:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			60896	08/23/23 11:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	60741	08/21/23 14:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60776	08/22/23 12:16	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	60724	08/21/23 11:51	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60729	08/21/23 13:39	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Resolute Compliance LLC
Job ID: 890-5128-1

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Resolute Compliance LLC
Job ID: 890-5128-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Resolute Compliance LLC
Project/Site:

Job ID: 890-5128-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-5128-1	HB-07	Solid	08/18/23 00:00	08/18/23 11:55

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Resolute Compliance	Bill to: (if different)	Grant McAfee
Company Name:	LM ENERGY PARTNERS	Company Name:	gm@resolutecompliance.com
Address:		Address:	
City, State ZIP:	Daniel Archer	City, State ZIP:	
Phone:	432-741-1529 Email:		inrangeenvironmental@gmail.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:		Turn Around	
Project Number:		☐ Routine ☒ Rush	
Project Location:		Due Date:	2 Day
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	IR#007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.8	
Total Containers:		Corrected Temperature:	4.6	

ANALYSIS REQUEST

Pres. Code / Parameters: BTEX-8021 | TPH-8015 | Chloride-E300

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Sample Comments
HB-07	S	8.18.23					

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8.18.23 1155	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Resolute Compliance LLC Job Number: 890-5128-1

Login Number: 5128 **List Source: Eurofins Carlsbad**
List Number: 1
Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Resolute Compliance LLC Job Number: 890-5128-1

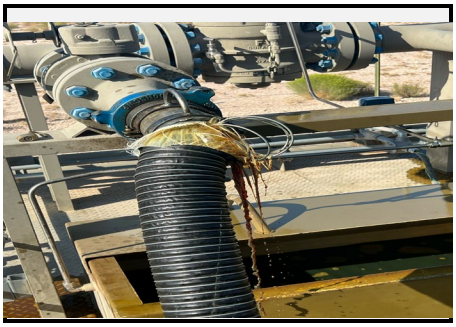
Login Number: 5128 **List Source: Eurofins Midland**
List Number: 2 **List Creation: 08/21/23 08:51 AM**
Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

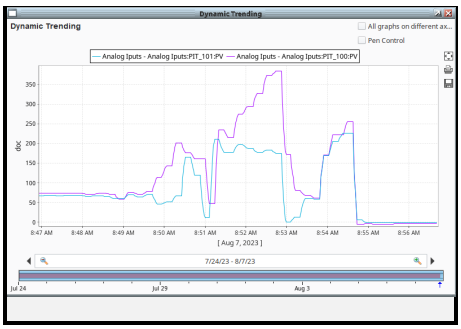
ATTACHMENT C – FIELD DATA

Photo Report

Project Name: Hackberry LACT spill (Big Eddy) **Date of spill:** 8/7/2023
Contractor: Allen Measurment **Spill bbl.** 28 bbl. **Date completed:** TBD
Supervisor: Clayton Freitas



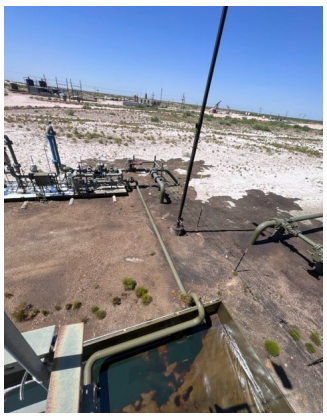
Description of Photo
Allen Measurment prover 4" hose after rupturing



Description of Photo
Screen shot of pipeline pressure trend during the event. Blue is downstream of control valve, purple is upstream pressure equal to what was on the prover hose.

Description of Photo
Photo taken after hose failed 8:55am.

Description of Photo
Photo of contaminated soil pushed up waiting on dump trucks to return from disposal.



District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
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 261447

CONDITIONS

Operator:	OGRID:
LM Touchdown LLC 2850 N Harwood St Suite 1050 Dallas, TX 75201	329097
	Action Number: 261447
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141	9/27/2023