Form C-144 Revised October 11, 2022

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

	Pit, Belo	w-Grade Tank, o	<u>)r</u>	
<u>Propose</u>	d Alternative Metho	d Permit or Clos	ure Plan Applicat	<u>ion</u>
Type of action:	Below grade tank registrat Permit of a pit or proposed Closure of a pit, below-gra Modification to an existing Closure plan only submitted	d alternative method ade tank, or proposed a g permit/or registration		t helow-grade tank
or proposed alterna		ed for an existing perm	nted of non-permitted pit	, ociow-grade tank,
Instructions: Please	submit one application (Form	C-144) per individual pit	, below-grade tank or alteri	native request
Please be advised that approval of this reque environment. Nor does approval relieve the	est does not relieve the operator of operator of its responsibility to c	f liability should operations omply with any other appli	result in pollution of surface cable governmental authority	water, ground water or the 's rules, regulations or ordinances.
Operator:		OGR	ID #:	
Address:				
Facility or well name:				
API Number:		OCD Permit Number:		
U/L or Qtr/QtrSection	on Township	Range	County:	
Center of Proposed Design: Latitude		Longitude		NAD83
Surface Owner: Federal State	Private Tribal Trust or India	an Allotment		
☐ Pit: Subsection F, G or J of 19.15.17.11 NMAC Temporary: ☐ Drilling ☐ Workover ☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☐ no ☐ Lined ☐ Unlined Liner type: Thickness mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other ☐ String-Reinforced ☐ String-Reinforced ☐ Volume:				
3. Below-grade tank: Subsection I o Volume:bbl Tank Construction material: Becondary containment with leak de	Type of fluid:etection	— liner, 6-inch lift and autor	matic overflow shut-off	
4. Alternative Method: Submittal of an exception request is requ	uired. Exceptions must be sub	mitted to the Santa Fe Env	vironmental Bureau office fo	or consideration of approval.
5. Fencing: Subsection D of 19.15.17.11 II Chain link, six feet in height, two strinstitution or church) Four foot height, four strands of barb Alternate. Please specify	ands of barbed wire at top (Req	uired if located within 10		lence, school, hospital,

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)			
Screen Netting Other			
Monthly inspections (If netting or screening is not physically feasible)			
Signs: Subsection C of 19.15.17.11 NMAC 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers Signed in compliance with 19.15.16.8 NMAC			
Variances and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.			
9. Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	otable source		
General siting			
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No		
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No		
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No		
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No		
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No		
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	☐ Yes ☐ No		
Below Grade Tanks			
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No		
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No		
<u>Temporary Pit using Low Chloride Drilling Fluid</u> (maximum chloride content 15,000 mg/liter)			
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	Yes No		
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ No		
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image			
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No		

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No		
Temporary Pit Non-low chloride drilling fluid			
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No		
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No		
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, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No		
 Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	☐ Yes ☐ No		
Permanent Pit or Multi-Well Fluid Management Pit			
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa			
lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No		
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No		
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No		
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No		
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: or Permit Number:			
11. Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC			
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the document attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC			

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the description is the subsection of the following items must be attached to the application.	documents are		
attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment			
 ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC 			
 Quality Control/Quality Assurance Construction and Installation Plan □ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC □ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC □ Nuisance or Hazardous Odors, including H₂S, Prevention Plan 			
 ☐ Emergency Response Plan ☐ Oil Field Waste Stream Characterization ☐ Monitoring and Inspection Plan 			
☐ Erosion Control Plan ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC			
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.			
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well Final Alternative Proposed Closure Method: Waste Excavation and Removal	luid Management Pit		
Waste Removal (Closed-loop systems only) □ On-site Closure Method (Only for temporary pits and closed-loop systems) □ In-place Burial □ On-site Trench Burial □ Alternative Closure Method			
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC			
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.			
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA		
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA		
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No		
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site			
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No		
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site			
Written confirmation or verification from the municipality; Written approval obtained from the municipality Yes			
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site			
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance			

adopted pursuant to NMSA 1978, Section 3-27-3, as amended.			
- Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No		
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No		
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological			
Society; Topographic map	☐ Yes ☐ No		
Within a 100-year floodplain FEMA map	☐ Yes ☐ No		
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved) Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC			
Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and be	lief.		
Name (Print): Title:			
Signature: Date:			
e-mail address: Telephone:			
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)			
OCD Representative Signature: Approval Date:			
Title: OCD Permit Number:			
19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date:			
20			
Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-If different from approved plan, please explain.	loop systems only)		

22.		
Operator Closure Certification:		
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.		
Name (Print):	Title:	
Signature:	Date:	
e-mail address:	Telephone:	

Mudge LS 023 M Release



Reportable spill

Sample

Well

Released to Imaging: 12/12/2025 1:25:14 PM

Mudge LS 023 M BGT Leak

Location: Sec 5, T31N, R1W

BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

This plan will address the standard protocols and procedures for closure of below-grade tanks (BGTs) on BP America Production Company (BP) well sites. As stipulated in Paragraph A of 19.15.17.13 NMAC, BP shall close a BGT within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the New Mexico Oil Conservation Division (NMOCD) requires because of imminent danger to fresh water, public health, safety or the environment. If deviations from this plan are necessary, any specific changes will be included on form C-144 and approved by the NMOCD. BP shall close an existing BGT that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years after June 16, 2008, if not retrofit with a BGT that complies with the BP NMOCD approved BGT design attached to the BP Design and Construction Plan. BP shall close an existing BGT that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC, if not previously retrofitted to comply with the BP NMOCD approve BGT Design attached to the BP Design and Construction Plan, prior to any sale or change in operator pursuant to 19.15.9.9 NMAC. BP shall close the permitted BGT within 60 days of cessation of the BGTs operation or as required by the transitional provisions of Subsection B, D, or E of 19.15.17.17 NMAC.

General Closure Plan

- 1. BP shall notify the surface owner by certified mail that it plans to close a BGT. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records demonstrates compliance with this requirement.
- 2. BP shall notify the division District III office verbally or by other means at least 72 hours, but not more than one (1) week, prior to any closure operation. The notice shall include the operator's name, and the location to be closed by unit letter, section, township and range. If the BGT closure is associated with a particular well, then the notice shall also include the well's name, number and API number.
- BP shall remove liquids and sludge from the BGT prior to implementing a closure method and dispose of the liquids and sludge in a NMOCD's division-approved facility. The facilities to be used are:
 - a. BP Crouch Mesa Landfarm, Permit NM-02-003 (Solids)
 - b. JFJ Landfarm, Permit NM-01-010(B) (Solids and Sludge)
 - c. Basin Disposal, Permit NM-01-0005 (Liquids)
 - Envirotech Inc Soil Remediation Facility, Permit NM-01-0011 (Solids and Sludge)
 - e. BP Operated E.E. Elliott SWD #1, API 30-045-27799 (Liquids)
 - f. BP Operated 13 GCU SWD #1, API 30-045-28601 (Liquids)
 - g. BP Operated GCU 259 SWD, API 30-045-20006 (Liquids)
 - h. BP Operated GCU 306 SWD, API 30-045-24286 (Liquids)
 - i. BP Operated GCU 307 SWD, API 30-045-24248 (Liquids)
 - j. BP Operated GCU 328 SWD, API 30-045-24735 (Liquids)
 - k. BP Operated Pritchard SWD #1, API 30-045-28351 (Liquids)

BP BGT Closure Plan 04-01-2010

- 4. BP shall remove the BGT and dispose of it in a NMOCD approved facility or recycle, reuse, or reclaim it in a manner that the NMOCD approves. If a liner is present and must be disposed of it will be cleaned by scraping any soils or other attached materials on the liner to a de minimus amount and disposed at a permitted solid waste facility, pursuant to Subparagraph (m) of Paragraph (1) of Subsection C of 19.15.35.8 NMAC. Documentation as to the final disposition of the removed BGT will be provided in the final closure report.
- BP shall remove any on-site equipment associated with a BGT unless the equipment is required for well production.
- 6. BP shall test the soils beneath the BGT to determine whether a release has occurred. BP shall collect at a minimum: a five (5) point composite sample and individual grab samples from any area that is wet, discolored or showing other evidence of a release and analyze for BTEX, TPH and chlorides. The testing methods for those constituents are as follows;

Constituents	Testing Method	Release Verification (mg/Kg)
Benzene	US EPA Method SW-846 8021B or 8260B	0.2
Total BTEX	US EPA Method SW-846 8021B or 8260B	50
TPH	US EPA Method SW-846 418.1	100
Chlorides	US EPA Method 300.0 or 4500B	250 or background

Notes: mg/Kg = milligram per kilogram, BTEX = benzene, toluene, ethylbenzene, and total xylenes, TPH = total petroleum hydrocarbons. Other EPA methods that the division approves may be applied to all constituents listed. Chloride closure standards will be determined by which ever concentration level is greatest.

- 7. BP shall notify the division District III office of its results on form C-141.
- If it is determined that a release has occurred, then BP will comply with 19.15.30 NMAC and 19.15.29 NMAC, as appropriate.
- 9. If the sampling demonstrates that a release has not occurred or that any release does not exceed the concentrations specified above, then BP shall backfill the excavation, with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover, re-contour and re-vegitate the location. The location will be reclaimed if it is not with in the active process area.
- 10. BP shall reclaim the BGT location and all areas associated with the BGT including associated access roads to a safe and stable condition that blends with the surrounding undisturbed area. BP shall substantially restore the impacted surface area to the condition that existed prior to oil and gas operations by placement of the soil cover as provided in Subsection H of 19.15.17.13 NMAC, re-contour the location and associated areas to a contour that approximates the original contour and blends with the surrounding topography and re-vegetate according to Subsection I of 19.15.17.13 NMAC.
- 11. The soil cover for closures where the BGT has been removed or remediated to the NMOCD's satisfaction shall consist of the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater. The soil

BP BGT Closure Plan 04-01-2010

- 12. BP shall seed the disturbed area the first growing season after closure of the BGT. Seeding will be accomplished by drilling on the contour whenever practical or by other division-approved methods. Vegetative cover will be, at a minimum, 70% of the native perennial vegetative cover (un-impacted by overgrazing, fire or other intrusion damaging to native vegetation), consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintenance of that cover through two successive growing seasons. During the two growing seasons that prove viability, there shall be no artificial irrigation of the vegetation.
- BP shall seed, plant and re-seed pursuant to Paragraph (3) of Subsection I of 19.15.17.13 NMAC, until the location successfully achieves the required vegetative cover.
- Pursuant to Paragraph (5) of Subsection I of 19.15.17.13 NMAC, BP shall notify the NMOCD when it has seeded or planted and when it successfully achieves revegetation.
- 15. Within 60 days of closure completion, BP shall submit a closure report on NMOCD's form C-144, and will include the following;
 - a. proof of closure notification (surface owner and NMOCD)
 - b. sampling analytical reports; information required by 19.15.17 NMAC;
 - c. disposal facility name and permit number
 - d. details on back-filling, capping, covering, and where applicable re-vegetation application rates and seeding techniques and
 - e. site reclamation, photo documentation. Disposal Facility Name and Permit Number
- 16. BP shall certify that all information in the report and attachments is accurate, truthful, and compliant with all applicable closure requirements and conditions specified in the approved closure plan.

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 497837

QUESTIONS

Operator:	OGRID:
SIMCOE LLC	329736
1199 Main Ave., Suite 101	Action Number:
Durango, CO 81301	497837
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source		
Please answer all the questions in this group.		
Site Name	Mudge LS 023M	
Date Release Discovered	08/14/2025	
Surface Owner	Federal	

Incident Details		
Please answer all the questions in this group.		
Incident Type	Produced Water Release	
Did this release result in a fire or is the result of a fire	No	
Did this release result in any injuries	No	
Has this release reached or does it have a reasonable probability of reaching a watercourse	No	
Has this release endangered or does it have a reasonable probability of endangering public health	No	
Has this release substantially damaged or will it substantially damage property or the environment	No	
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No	

Nature and Volume of Release		
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Not answered.	
Produced Water Released (bbls) Details	Cause: Corrosion Tank (Any) Produced Water Released: 13 BBL Recovered: 5 BBL Lost: 8 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	No	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.	

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Phone: (505) 629-6116

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

QUESTIONS, Page 2

Action 497837

QUESTIONS (continued)

Operator:	OGRID:
SIMCOE LLC	329736
1199 Main Ave., Suite 101	Action Number:
Durango, CO 81301	497837
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)				
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.			
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No			
Reasons why this would be considered a submission for a notification of a major release th the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	Unavailable.			

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	True			
The impacted area has been secured to protect human health and the environment	True			
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True			
All free liquids and recoverable materials have been removed and managed appropriately	True			
If all the actions described above have not been undertaken, explain why	Released free liquids were recovered via vac truck, remaining impacted material is contained within the dig of the BGT.			

Per Paragraph 4 of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. 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 prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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ACKNOWLEDGMENTS

Action 497837

ACKNOWLEDGMENTS

Operator:	OGRID:
SIMCOE LLC	329736
1199 Main Ave., Suite 101	Action Number:
Durango, CO 81301	497837
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

$\overline{\lor}$	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.		
V	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.		
I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval notification and corrective action", pursuant to NMAC 19.15.29.			
V	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.		
V	I acknowledge the fact that 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.		
V	I acknowledge the fact that, 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.		

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 497837

CONDITIONS

Operator:	OGRID:	
SIMCOE LLC	329736	
1199 Main Ave., Suite 101 Durango, CO 81301	Action Number: 497837	
	Action Type: [NOTIFY] Notification Of Release (NOR)	

CONDITIONS

Created By		Condition Date
jbran	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	8/20/2025

Soil Sampling Results Mudge LS 023 M						
Parameter	SS01 8/14/2025 SS02 SS03 SS04 SS05					
Depth	5-6	2	2	2	2	Feet - BGS
Chloride	ND	ND	ND	ND	ND	ppm
Benzene	ND	ND	ND	ND	ND	mg/kg
Toluene	ND	ND	ND	ND	ND	mg/kg
Ethylbenzene	0.036	ND	ND	ND	ND	mg/kg
Total Xylenes	0.420	ND	ND	ND	ND	mg/kg
Total BTEX	0.456	ND	ND	ND	ND	mg/kg
TPH (GRO)	ND	ND	ND	ND	ND	mg/kg
TPH (DRO)	ND	ND	ND	ND	ND	mg/kg
TPH (EXT DRO)	ND	ND	ND	ND	ND	mg/kg
Total TPH	ND	ND	ND	ND	ND	mg/kg

Parameter	SS06 9/5/2025 N. Sidewall	SS07 9/5/2025 E. Sidewall	SS08 9/5/2025 S. Sidewall	SS09 9/5/2025 W. Sidewall	SS10 9/5/2025 5-Point comp base	Units
Depth	1	1	1	1	6	Feet - BGS
Chloride	ND	35.000	ND	ND	ND	ppm
Benzene	ND	ND	ND	ND	ND	mg/kg
Toluene	ND	ND	ND	ND	ND	mg/kg
Ethylbenzene	ND	ND	ND	ND	ND	mg/kg
Total Xylenes	ND	0.033	ND	ND	ND	mg/kg
Total BTEX	ND	0.033	ND	ND	ND	mg/kg
TPH (GRO)	ND	ND	ND	ND	ND	mg/kg
TPH (DRO)	ND	ND	ND	ND	ND	mg/kg
TPH (EXT DRO)	ND	ND	ND	ND	ND	mg/kg
Total TPH	ND	ND	ND	ND	ND	mg/kg

Notes:

PID - Photoionization Detector

BTEX - Benzene, Toluene, Ethylbenzene, and total Xylenes

TPH - Total Petroleum Hydrocarbons

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

EXT - Extended

Report to:
Jerrid Brann





5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

IKAV Energy Inc.

Project Name: Mudge LS 023 M

Work Order: E508176

Job Number: 20095-0001

Received: 8/14/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/18/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 8/18/25

Jerrid Brann

1199 Main Ave. Suite 242 Durango, CO 81301

Project Name: Mudge LS 023 M

Workorder: E508176

Date Received: 8/14/2025 4:54:00PM

Jerrid Brann,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/14/2025 4:54:00PM, under the Project Name: Mudge LS 023 M.

The analytical test results summarized in this report with the Project Name: Mudge LS 023 M apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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Sample Summary

IKAV Energy Inc.	Project Name:	Mudge LS 023 M	Reported:
1199 Main Ave. Suite 242	Project Number:	20095-0001	Keporteu.
Durango CO, 81301	Project Manager:	Jerrid Brann	08/18/25 15:24

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SS01 5-POINT BASE	E508176-01A Soil	08/14/25	08/14/25	Glass Jar, 4 oz.
SS02 N. SIDEWALL	E508176-02A Soil	08/14/25	08/14/25	Glass Jar, 4 oz.
SS03 E. SIDEWALL	E508176-03A Soil	08/14/25	08/14/25	Glass Jar, 4 oz.
SS04 S. SIDEWALL	E508176-04A Soil	08/14/25	08/14/25	Glass Jar, 4 oz.
SS05 W. SIDEWALL	E508176-05A Soil	08/14/25	08/14/25	Glass Jar, 4 oz.



IKAV Energy Inc.	Project Name:	Mudge LS 023 M	
1199 Main Ave. Suite 242	Project Number:	20095-0001	Reported:
Durango CO, 81301	Project Manager:	Jerrid Brann	8/18/2025 3:24:37PM

SS01 5-POINT BASE

		E300170-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	llyst: BA		Batch: 2533121
Benzene	ND	0.0250	1	08/15/25	08/15/25	
Ethylbenzene	0.0357	0.0250	1	08/15/25	08/15/25	
Toluene	ND	0.0250	1	08/15/25	08/15/25	
o-Xylene	0.0358	0.0250	1	08/15/25	08/15/25	
p,m-Xylene	0.384	0.0500	1	08/15/25	08/15/25	
Total Xylenes	0.420	0.0250	1	08/15/25	08/15/25	
Surrogate: 4-Bromochlorobenzene-PID		98.8 %	70-130	08/15/25	08/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2533121
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/15/25	08/15/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.2 %	70-130	08/15/25	08/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2533120
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/25	08/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/25	08/16/25	
Surrogate: n-Nonane		104 %	61-141	08/15/25	08/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2533130
Chloride	ND	20.0	1	08/15/25	08/15/25	



IKAV Energy Inc.	Project Name:	Mudge LS 023 M	
1199 Main Ave. Suite 242	Project Number:	20095-0001	Reported:
Durango CO, 81301	Project Manager:	Jerrid Brann	8/18/2025 3:24:37PM

SS02 N. SIDEWALL

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2533121
Benzene	ND	0.0250	1	08/15/25	08/15/25	
Ethylbenzene	ND	0.0250	1	08/15/25	08/15/25	
Toluene	ND	0.0250	1	08/15/25	08/15/25	
o-Xylene	ND	0.0250	1	08/15/25	08/15/25	
p,m-Xylene	ND	0.0500	1	08/15/25	08/15/25	
Total Xylenes	ND	0.0250	1	08/15/25	08/15/25	
Surrogate: 4-Bromochlorobenzene-PID		97.5 %	70-130	08/15/25	08/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2533121
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/15/25	08/15/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.6 %	70-130	08/15/25	08/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2533120
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/25	08/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/25	08/16/25	
Surrogate: n-Nonane		92.1 %	61-141	08/15/25	08/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	llyst: IY		Batch: 2533130
Chloride	ND	20.0	1	08/15/25	08/15/25	_



IKAV Energy Inc.	Project Name:	Mudge LS 023 M	
1199 Main Ave. Suite 242	Project Number:	20095-0001	Reported:
Durango CO, 81301	Project Manager:	Jerrid Brann	8/18/2025 3:24:37PM

SS03 E. SIDEWALL

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: BA		Batch: 2533121
Benzene	ND	0.0250	1	08/15/25	08/15/25	
Ethylbenzene	ND	0.0250	1	08/15/25	08/15/25	
Toluene	ND	0.0250	1	08/15/25	08/15/25	
o-Xylene	ND	0.0250	1	08/15/25	08/15/25	
p,m-Xylene	ND	0.0500	1	08/15/25	08/15/25	
Total Xylenes	ND	0.0250	1	08/15/25	08/15/25	
Surrogate: 4-Bromochlorobenzene-PID		99.6 %	70-130	08/15/25	08/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: BA		Batch: 2533121
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/15/25	08/15/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.6 %	70-130	08/15/25	08/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: NV		Batch: 2533120
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/25	08/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/25	08/16/25	
Surrogate: n-Nonane		97.2 %	61-141	08/15/25	08/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: IY		Batch: 2533130
Chloride	ND	20.0	1	08/15/25	08/15/25	



IKAV Energy Inc.	Project Name:	Mudge LS 023 M	
1199 Main Ave. Suite 242	Project Number:	20095-0001	Reported:
Durango CO, 81301	Project Manager:	Jerrid Brann	8/18/2025 3:24:37PM

SS04 S. SIDEWALL

	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: BA		Batch: 2533121
ND	0.0250	1	08/15/25	08/15/25	
ND	0.0250	1	08/15/25	08/15/25	
ND	0.0250	1	08/15/25	08/15/25	
ND	0.0250	1	08/15/25	08/15/25	
ND	0.0500	1	08/15/25	08/15/25	
ND	0.0250	1	08/15/25	08/15/25	
	100 %	70-130	08/15/25	08/15/25	
mg/kg	mg/kg	Anal	yst: BA		Batch: 2533121
ND	20.0	1	08/15/25	08/15/25	
	96.1 %	70-130	08/15/25	08/15/25	
mg/kg	mg/kg	Anal	yst: NV		Batch: 2533120
ND	25.0	1	08/15/25	08/16/25	
ND	50.0	1	08/15/25	08/16/25	
	92.1 %	61-141	08/15/25	08/16/25	
mg/kg	mg/kg	Anal	yst: IY		Batch: 2533130
	mg/kg ND	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 0.0250 mg/kg mg/kg ND 20.0 96.1 % mg/kg ND 25.0 ND 50.0 92.1 %	Result Limit Dilution mg/kg mg/kg Anal ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 70-130 mg/kg mg/kg Anal ND 20.0 1 96.1 % 70-130 mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 92.1 % 61-141	Result Limit Dilution Prepared mg/kg mg/kg Analyst: BA ND 0.0250 1 08/15/25 ND 0.0250 1 08/15/25 ND 0.0250 1 08/15/25 ND 0.0500 1 08/15/25 ND 0.0250 1 08/15/25 ND 0.0250 1 08/15/25 mg/kg 70-130 08/15/25 mg/kg mg/kg Analyst: BA ND 20.0 1 08/15/25 mg/kg mg/kg Analyst: NV ND 25.0 1 08/15/25 ND 50.0 1 08/15/25 92.1 % 61-141 08/15/25	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: BA ND 0.0250 1 08/15/25 08/15/25 ND 0.0500 1 08/15/25 08/15/25 ND 0.0250 1 08/15/25 08/15/25 mg/kg Analyst: BA 08/15/25 08/15/25 mg/kg mg/kg Analyst: BA ND 20.0 1 08/15/25 08/15/25 mg/kg mg/kg Analyst: NV ND 25.0 1 08/15/25 08/16/25 ND 25.0 1 08/15/25 08/16/25 ND 50.0 1 08/15/25 08/16/25



IKAV Energy Inc.	Project Name:	Mudge LS 023 M	
1199 Main Ave. Suite 242	Project Number:	20095-0001	Reported:
Durango CO, 81301	Project Manager:	Jerrid Brann	8/18/2025 3:24:37PM

SS05 W. SIDEWALL

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2533121
Benzene	ND	0.0250	1	08/15/25	08/15/25	
Ethylbenzene	ND	0.0250	1	08/15/25	08/15/25	
Toluene	ND	0.0250	1	08/15/25	08/15/25	
o-Xylene	ND	0.0250	1	08/15/25	08/15/25	
p,m-Xylene	ND	0.0500	1	08/15/25	08/15/25	
Total Xylenes	ND	0.0250	1	08/15/25	08/15/25	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	08/15/25	08/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2533121
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/15/25	08/15/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.3 %	70-130	08/15/25	08/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2533120
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/25	08/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/25	08/16/25	
Surrogate: n-Nonane		96.1 %	61-141	08/15/25	08/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2533130
Chloride	ND	20.0	1	08/15/25	08/15/25	



Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

QC Summary Data

Mudge LS 023 M IKAV Energy Inc. Project Name: Reported: 1199 Main Ave. Suite 242 Project Number: 20095-0001 Durango CO, 81301 Project Manager: Jerrid Brann 8/18/2025 3:24:37PM **Volatile Organics by EPA 8021B** Analyst: BA Source RPD Reporting Spike Rec Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2533121-BLK1) Prepared: 08/15/25 Analyzed: 08/15/25 ND 0.0250 ND Ethylbenzene 0.0250 ND Toluene 0.0250 ND 0.0250 o-Xylene ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 8.11 8.00 101 70-130 LCS (2533121-BS1) Prepared: 08/15/25 Analyzed: 08/15/25 5.54 5.00 111 70-130 0.0250 Benzene Ethylbenzene 5.33 0.0250 5.00 107 70-130 5.47 70-130 Toluene 0.0250 5.00 109 5.23 105 70-130 o-Xylene 0.0250 5.00 10.7 0.0500 10.0 107 70-130 p,m-Xylene

Matrix Spike (2533121-MS1)				Source:	E508172-	01	Prepared: 08/15/25 Analyzed: 08/15/25
Benzene	5.17	0.0250	5.00	ND	103	70-130	
Ethylbenzene	4.96	0.0250	5.00	ND	99.1	70-130	
Toluene	5.10	0.0250	5.00	ND	102	70-130	
o-Xylene	4.90	0.0250	5.00	ND	98.0	70-130	
p,m-Xylene	9.97	0.0500	10.0	ND	99.7	70-130	
Total Xylenes	14.9	0.0250	15.0	ND	99.1	70-130	
Surrogate: 4-Bromochlorobenzene-PID	8.10		8.00		101	70-130	

15.0

8.00

106

99.7

70-130

70-130

15.9

7.98

0.0250

Matrix Spike Dup (2533121-MSD1)				Source:	E508172-	01	Prepared: 08	/15/25 Analyzed: 08/1	15/25
Benzene	5.14	0.0250	5.00	ND	103	70-130	0.643	27	
Ethylbenzene	4.91	0.0250	5.00	ND	98.3	70-130	0.833	26	
Toluene	5.06	0.0250	5.00	ND	101	70-130	0.871	20	
o-Xylene	4.88	0.0250	5.00	ND	97.7	70-130	0.365	25	
p,m-Xylene	9.90	0.0500	10.0	ND	99.0	70-130	0.720	23	
Total Xylenes	14.8	0.0250	15.0	ND	98.5	70-130	0.603	26	
Surrogate: 4-Bromochlorobenzene-PID	8.02		8.00		100	70-130			

QC Summary Data

IKAV Energy Inc.	Project Name:	Mudge LS 023 M	Reported:
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Jerrid Brann	8/18/2025 3:24:37PM

Durango CO, 81301		Project Manage	r: Jei	rrid Brann				8/	18/2025 3:24:37PM
	Non	halogenated	Organics	by EPA 80	15D - Gl	RO			Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2533121-BLK1)							Prepared: 0	8/15/25 Ana	lyzed: 08/15/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.8	70-130			
LCS (2533121-BS2)							Prepared: 0	8/15/25 Ana	lyzed: 08/18/25
Gasoline Range Organics (C6-C10)	54.8	20.0	50.0		110	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		8.00		98.2	70-130			
Matrix Spike (2533121-MS2)				Source:	E508172-	01	Prepared: 0	8/15/25 Ana	lyzed: 08/15/25
Gasoline Range Organics (C6-C10)	49.0	20.0	50.0	ND	98.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.6	70-130			
Matrix Spike Dup (2533121-MSD2)				Source:	E508172-	01	Prepared: 0	8/15/25 Ana	lyzed: 08/15/25
Gasoline Range Organics (C6-C10)	48.5	20.0	50.0	ND	97.0	70-130	1.08	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.3	70-130			

QC Summary Data

IKAV Energy Inc.Project Name:Mudge LS 023 MReported:1199 Main Ave. Suite 242Project Number:20095-0001Durango CO, 81301Project Manager:Jerrid Brann8/18/20253:24:37PM

Burungo CO, 01501		r roject ivianage		na Braini					
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2533120-BLK1)							Prepared: 0	8/15/25 Ana	lyzed: 08/15/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.4		50.0		94.8	61-141			
LCS (2533120-BS1)							Prepared: 0	8/15/25 Ana	lyzed: 08/15/25
Diesel Range Organics (C10-C28)	274	25.0	250		110	66-144			
Surrogate: n-Nonane	52.5		50.0		105	61-141			
Matrix Spike (2533120-MS1)				Source:	E508174-0	03	Prepared: 0	8/15/25 Ana	lyzed: 08/15/25
Diesel Range Organics (C10-C28)	264	25.0	250	ND	106	56-156			
Surrogate: n-Nonane	50.1		50.0		100	61-141			
Matrix Spike Dup (2533120-MSD1)				Source:	E508174-0	03	Prepared: 0	8/15/25 Ana	lyzed: 08/15/25
Diesel Range Organics (C10-C28)	251	25.0	250	ND	100	56-156	5.15	20	
Surrogate: n-Nonane	49.5		50.0		98.9	61-141			

Matrix Spike Dup (2533130-MSD1)

Chloride

QC Summary Data

IKAV Energy Inc. 1199 Main Ave. Suite 242 Durango CO, 81301		Project Name: Project Number: Project Manager	20	fudge LS 023 1 0095-0001 errid Brann	M			8	Reported: 8/18/2025 3:24:37PM
		Anions	by EPA	300.0/9056 <i>A</i>	\				Analyst: IY
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2533130-BLK1)							Prepared: 0	8/15/25 An	alyzed: 08/15/25
Chloride	ND	20.0							
LCS (2533130-BS1)							Prepared: 0	8/15/25 An	alyzed: 08/15/25
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2533130-MS1)				Source:	E508176-	02	Prepared: 0	8/15/25 An	alyzed: 08/15/25
Chloride	254	20.0	250	ND	101	80-120			

250

20.0

Source: E508176-02

102

80-120

0.614

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Prepared: 08/15/25 Analyzed: 08/15/25

20

Definitions and Notes

IKAV Energy Inc.	Project Name:	Mudge LS 023 M	
1199 Main Ave. Suite 242	Project Number:	20095-0001	Reported:
Durango CO, 81301	Project Manager:	Jerrid Brann	08/18/25 15:24

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Custody
Custody

	Clie	nt Inform	nation		1,318.0	Invoice Information	n			Li	ab Us	se On	ily				T	AT			Stat	B
	KAV Energy					Company: IKAV Energy		Lab	WO#	ŧ	_	Job				1D	2D	3D	Std	NM	CO UT	TX
I	Name: Muß			<u>M</u>		Address: 1199 Main Ave Suite	101	LE'	508	117	6	200	95.	-000	/<		X			叉		
	<u> Manager: Jei</u>				- 1	City, State, Zip: Durango, CO	81301				Maria Maria											
	:1199 Main A				- 1	Phone: 970-394-0250		R				Ana	ılysis	and	Met	hod				El	PA Progra	ım
	te, Zip: Dura	ngo, CO 8	31301		.	Email: jerrid.brann@ikavene	rgy.com		3											SDWA	CWA	RCRA
	70-39-0250				_	Miscellaneous:					İ					ļ.		1 1				
	rrid.brann@i	kavenerg		S2-06 (0.00 to 10.00					015	1 8	l									Complian	ce Y	or N
-			<u>Hiska flan</u>	Sam	ple Inforn	nation		10110166586	DRO/ORO by 8015	GRO/DRO by 8015	170	260	Chloride 300.0	ξ	TCEQ 1005 - TX	RCRA 8 Metals	Catlon/Anion Pkg	ECMC Table 915-1		PWSID#		
Time		1	No. of	<u> </u>	pic iiiioiii	·	о ;	lab	- ĕ	§	ă ă	by 8	ride	၂ ဗွဲ	1005	V8 V	Ani	[둁		5	Remarks	
Sampled	Date Sampled	Matrix	Containers			Sample ID	Field	Lab Number	, g	GRO,	BTEX by 8021	VOC by 8260	Chlo	BGDOC - NM	TCEQ	RCR4	gg	ECMC		Temp		
14:00	B-14-25	SOIL	1	550	1 5.	POINT BASE		1	L	X	X		\checkmark							5.5		
15:35	8-14-25	501	1	550	2 r	1. SIDEWALL		2	X	X	乂		X							5.1°		
15:45	8-14-25	SOIL	1	350	3 E	. SIDEWALL		3	X	X	X		X							5.3		
15:50	8-14-25	SOIL	1	560l	1 5	SIDEWALL SIDEWALL		4	X	X	X	_	X							5.5		
15:55	8-14-25	SOIL)	3505	_ W.	SIDEWALL		5	X	X	X		۸							5.6		
																				,		
																					-	
																				·		
Addition	al Instructio	ns:	•				. •															
I, (field sam) Sampled by:	pler), attest to the	validity and	authenticity	of this sample	. I am aware	that tampering with or intentionally mislabe	eling the sam	ple location,	date or	time o	f colle	ction is	consid	lered f	raud a	nd ma	y be gr	ounds fo	or lega	al action.	_	
Relinquish	ed by: Signatur	re)	Date &	14-25	Time 16:5	Received by: (Signature)	Date	.14.25	Time	55L	٦									t be received of temp above 0		•
Relinquish	ed by (Signatu	e)	Date	,	Time	Received by: (Signature)	Date		Time		•	y.,		Rece	ived:	on i	ce.	La		e Only		
Relinquish	ed by: (Signatuı	е)	Date		Time	Received by: (Signature)	Date		Time					T1	+GU	J11 1		\mathcal{L}			Т3	
Relinquish	ed by: (Signatui	e)	Date		Time	Received by: (Signature)	Date		Time				: 2000 : 2000	AVG	Tem	n °C	-	16			13	
Sample Mat	rix: S - Soil, Sd - Se	olid, Sg - Slud	ge, A - Aque	ous, O - Other			Con	tainer Typ	e: g - i	glass.	p - p	a/vio						- VOA				
Note: Sam	ples are discard	ed 14 days	after result	s are reporte	d unless ot	ner arrangements are made. Hazardous	s samples w	ill be returr	ned to	lient	or dis	posed							for t	he analysis	of the abov	e samples
is applicab	e only to those	samples re	ceived by t	ne laborator	y with this C	OC. The liability of the laboratory is lim	irted to the	amount pai	ia tor o	n the	repor	t.										



envirotech

Printed: 8/14/2025 5:06:24PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	IKAV Energy Inc.	Date Received:	08/14/25 1	6:54	Wo	rk Order ID:	E508176
Phone:	(970) 828-4060	Date Logged In:	08/14/25 1	7:02	Log	ged In By:	Noe Soto
Email:	jerrid.brann@ikavenergy.com	Due Date:	08/18/25 0	7:00 (2 day TAT)			
Chain of	Custody (COC)						
1. Does t	he sample ID match the COC?		Yes				
2. Does t	he number of samples per sampling site location m	atch the COC	Yes				
3. Were s	samples dropped off by client or carrier?		Yes	Carrier: Jerrid I	Brann		
4. Was th	ne COC complete, i.e., signatures, dates/times, requi	ested analyses?	Yes				
5. Were a	all samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted					Commen	ts/Resolution
Cample 7	i.e, 15 minute hold time, are not included in this disucss Furn Around Time (TAT)	ion.				Commen	NOT THE SOURCE OF THE SOURCE O
	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample (140				
	sample cooler received?		Yes				
	was cooler received in good condition?		Yes				
•	ne sample(s) received intact, i.e., not broken?						
	custody/security seals present?		Yes				
	s, were custody/security seals intact?		No				
-			NA				
12. Was tr	ne sample received on ice? Note: Thermal preservation is not required, if samples a	re received within	Yes				
	15 minutes of sampling	ne received within					
13. See C	COC for individual sample temps. Samples outside	of 0°C-6°C will be	recorded in	n comments.			
Sample (<u>Container</u>						
	equeous VOC samples present?		No				
15. Are \	OC samples collected in VOA Vials?		NA				
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA				
17. Was a	a trip blank (TB) included for VOC analyses?		NA				
18. Are n	on-VOC samples collected in the correct container	s?	Yes				
19. Is the	appropriate volume/weight or number of sample conta	iners collected?	Yes				
Field La	<u>bel</u>						
20. Were	field sample labels filled out with the minimum in:	formation:					
	sample ID?		Yes				
	Oate/Time Collected?		Yes				
	Collectors name? Preservation		Yes				
	the COC or field labels indicate the samples were	reserved?	No				
	ample(s) correctly preserved?	preserveu:	NA				
	filtration required and/or requested for dissolved n	netals?	No				
		ictais:	140				
	ase Sample Matrix the sample have more than one phase, i.e., multiph	222	NT				
	s, does the COC specify which phase(s) is to be ana		No				
		iyzed?	NA				
	ract Laboratory						
	amples required to get sent to a subcontract laborat	•	No				
29. Was a	a subcontract laboratory specified by the client and	if so who?	NA	Subcontract Lab: NA			
Client I	<u>nstruction</u>						

Report to:
Jerrid Brann







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

IKAV Energy Inc.

Project Name: MUDGE LS 23M

Work Order: E509039

Job Number: 20095-0001

Received: 9/5/2025

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 9/9/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/9/25

Jerrid Brann

1199 Main Ave. Suite 242 Durango, CO 81301

Project Name: MUDGE LS 23M

Workorder: E509039

Date Received: 9/5/2025 9:53:00AM

Jerrid Brann,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/5/2025 9:53:00AM, under the Project Name: MUDGE LS 23M.

The analytical test results summarized in this report with the Project Name: MUDGE LS 23M apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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Client Representative

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Sample Summary

	IKAV Energy Inc.	Project Name:	MUDGE LS 23M	Reported:
١	1199 Main Ave. Suite 242	Project Number:	20095-0001	Keporteu:
	Durango CO, 81301	Project Manager:	Jerrid Brann	09/09/25 15:06

Client Sample ID	Lab Sample ID Matrix	Sampled Rec	eived Container
SS06 N. SIDEWALL	E509039-01A Soil	09/05/25 09/0	05/25 Glass Jar, 4 oz.
SS07 E. SIDEWALL	E509039-02A Soil	09/05/25 09/0	05/25 Glass Jar, 4 oz.
SS08 .S. SIDEWALL	E509039-03A Soil	09/05/25 09/0	05/25 Glass Jar, 4 oz.
SS09 W. SIDEWALL	E509039-04A Soil	09/05/25 09/0	05/25 Glass Jar, 4 oz.
SS10 BASE COMP	F509039-05A Soil	09/05/25 09/0)5/25 Glass Jar. 4 oz.



IKAV Energy Inc.	Project Name:	MUDGE LS 23M	
1199 Main Ave. Suite 242	Project Number:	20095-0001	Reported:
Durango CO, 81301	Project Manager:	Jerrid Brann	9/9/2025 3:06:07PM

SS06 N. SIDEWALL

E509039-01

		1207027 01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2536085
Benzene	ND	0.0250	1	09/05/25	09/07/25	
Ethylbenzene	ND	0.0250	1	09/05/25	09/07/25	
Toluene	ND	0.0250	1	09/05/25	09/07/25	
o-Xylene	ND	0.0250	1	09/05/25	09/07/25	
p,m-Xylene	ND	0.0500	1	09/05/25	09/07/25	
Total Xylenes	ND	0.0250	1	09/05/25	09/07/25	
Surrogate: 4-Bromochlorobenzene-PID		92.3 %	70-130	09/05/25	09/07/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2536085
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/05/25	09/07/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.4 %	70-130	09/05/25	09/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: HM		Batch: 2537002
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/25	09/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/25	09/08/25	
Surrogate: n-Nonane		93.0 %	61-141	09/08/25	09/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: TP		Batch: 2537015
Chloride	ND	20.0	1	09/08/25	09/08/25	·



IKAV Energy Inc.	Project Name:	MUDGE LS 23M	
1199 Main Ave. Suite 242	Project Number:	20095-0001	Reported:
Durango CO, 81301	Project Manager:	Jerrid Brann	9/9/2025 3:06:07PM

SS07 E. SIDEWALL

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: BA		Batch: 2536085
Benzene	ND	0.0250	1	09/05/25	09/07/25	
Ethylbenzene	ND	0.0250	1	09/05/25	09/07/25	
Toluene	ND	0.0250	1	09/05/25	09/07/25	
o-Xylene	0.0330	0.0250	1	09/05/25	09/07/25	
p,m-Xylene	ND	0.0500	1	09/05/25	09/07/25	
Total Xylenes	0.0330	0.0250	1	09/05/25	09/07/25	
Surrogate: 4-Bromochlorobenzene-PID		92.8 %	70-130	09/05/25	09/07/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	Analyst: BA		Batch: 2536085
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/05/25	09/07/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.1 %	70-130	09/05/25	09/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: HM		Batch: 2537002
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/25	09/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/25	09/08/25	
Surrogate: n-Nonane		98.0 %	61-141	09/08/25	09/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: TP		Batch: 2537015
Chloride	35.0	20.0	1	09/08/25	09/08/25	



IKAV Energy Inc.	Project Name:	MUDGE LS 23M	
1199 Main Ave. Suite 242	Project Number:	20095-0001	Reported:
Durango CO, 81301	Project Manager:	Jerrid Brann	9/9/2025 3:06:07PM

SS08 .S. SIDEWALL

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: BA		Batch: 2536085
Benzene	ND	0.0250	1	09/05/25	09/07/25	
Ethylbenzene	ND	0.0250	1	09/05/25	09/07/25	
Toluene	ND	0.0250	1	09/05/25	09/07/25	
o-Xylene	ND	0.0250	1	09/05/25	09/07/25	
p,m-Xylene	ND	0.0500	1	09/05/25	09/07/25	
Total Xylenes	ND	0.0250	1	09/05/25	09/07/25	
Surrogate: 4-Bromochlorobenzene-PID		92.5 %	70-130	09/05/25	09/07/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	Analyst: BA		Batch: 2536085
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/05/25	09/07/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.3 %	70-130	09/05/25	09/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: HM		Batch: 2537002
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/25	09/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/25	09/08/25	
Surrogate: n-Nonane		99.0 %	61-141	09/08/25	09/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: TP		Batch: 2537015



IKAV Energy Inc.	Project Name:	MUDGE LS 23M	
1199 Main Ave. Suite 242	Project Number:	20095-0001	Reported:
Durango CO, 81301	Project Manager:	Jerrid Brann	9/9/2025 3:06:07PM

SS09 W. SIDEWALL

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2536085
Benzene	ND	0.0250	1	09/05/25	09/07/25	
Ethylbenzene	ND	0.0250	1	09/05/25	09/07/25	
Toluene	ND	0.0250	1	09/05/25	09/07/25	
o-Xylene	ND	0.0250	1	09/05/25	09/07/25	
p,m-Xylene	ND	0.0500	1	09/05/25	09/07/25	
Total Xylenes	ND	0.0250	1	09/05/25	09/07/25	
Surrogate: 4-Bromochlorobenzene-PID		93.0 %	70-130	09/05/25	09/07/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	Analyst: BA		Batch: 2536085
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/05/25	09/07/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.5 %	70-130	09/05/25	09/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: HM		Batch: 2537002
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/25	09/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/25	09/08/25	
Surrogate: n-Nonane		99.5 %	61-141	09/08/25	09/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: TP		Batch: 2537015
Chloride	ND	20.0	1	09/08/25	09/08/25	



IKAV Energy Inc.	Project Name:	MUDGE LS 23M	
1199 Main Ave. Suite 242	Project Number:	20095-0001	Reported:
Durango CO, 81301	Project Manager:	Jerrid Brann	9/9/2025 3:06:07PM

SS10 BASE COMP

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: BA		Batch: 2536085
Benzene	ND	0.0250	1	09/05/25	09/07/25	
Ethylbenzene	ND	0.0250	1	09/05/25	09/07/25	
Toluene	ND	0.0250	1	09/05/25	09/07/25	
o-Xylene	ND	0.0250	1	09/05/25	09/07/25	
p,m-Xylene	ND	0.0500	1	09/05/25	09/07/25	
Total Xylenes	ND	0.0250	1	09/05/25	09/07/25	
Surrogate: 4-Bromochlorobenzene-PID		85.2 %	70-130	09/05/25	09/07/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	Analyst: BA		Batch: 2536085
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/05/25	09/07/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.1 %	70-130	09/05/25	09/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: HM		Batch: 2537002
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/25	09/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/25	09/09/25	
Surrogate: n-Nonane		94.9 %	61-141	09/08/25	09/09/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: TP		Batch: 2537015
Chloride	ND	20.0	1	09/08/25	09/08/25	



QC Summary Data

	¥ °	~ uniiiiiiii j = uu	~		
IKAV Energy Inc.	Project Nam	e: MUDGE LS 23	M		Reported:
1199 Main Ave. Suite 242	Project Num	ber: 20095-0001			•
Durango CO, 81301	Project Mana	ager: Jerrid Brann			9/9/2025 3:06:07PM
	Volatil	e Organics by EPA 802	1B		Analyst: BA
Analyte	Reporting		Rec	RPD	

Volatile Organics by EPA 8021B									
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2536085-BLK1)							Prepared: 09	9/05/25 A	Analyzed: 09/07/25
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.41		8.00		92.7	70-130			
LCS (2536085-BS1)							Prepared: 09	9/05/25 A	Analyzed: 09/07/25
Benzene	4.95	0.0250	5.00		98.9	70-130			
Ethylbenzene	4.69	0.0250	5.00		93.9	70-130			
Toluene	4.94	0.0250	5.00		98.8	70-130			
o-Xylene	4.80	0.0250	5.00		96.0	70-130			
p,m-Xylene	9.45	0.0500	10.0		94.5	70-130			
Total Xylenes	14.2	0.0250	15.0		95.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.37		8.00		92.1	70-130			
Matrix Spike (2536085-MS1)				Source:	E509038-	02	Prepared: 09	9/05/25 A	Analyzed: 09/07/25
Benzene	5.70	0.0250	5.00	ND	114	70-130			
Ethylbenzene	5.46	0.0250	5.00	ND	109	70-130			
Toluene	5.59	0.0250	5.00	ND	112	70-130			
o-Xylene	5.52	0.0250	5.00	0.0433	110	70-130			
p,m-Xylene	11.0	0.0500	10.0	ND	110	70-130			
Total Xylenes	16.5	0.0250	15.0	0.0433	110	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.42		8.00		92.7	70-130			
Matrix Spike Dup (2536085-MSD1)				Source:	E509038-	02	Prepared: 09	9/05/25 A	Analyzed: 09/07/25
Benzene	5.15	0.0250	5.00	ND	103	70-130	10.1	27	
Ethylbenzene	4.95	0.0250	5.00	ND	98.9	70-130	9.98	26	
Toluene	5.06	0.0250	5.00	ND	101	70-130	9.90	20	
o-Xylene	5.00	0.0250	5.00	0.0433	99.1	70-130	9.93	25	
p,m-Xylene	9.96	0.0500	10.0	ND	99.6	70-130	9.58	23	
Total Xylenes	15.0	0.0250	15.0	0.0433	99.4	70-130	9.70	26	
Surrogate: 4-Bromochlorobenzene-PID	7.33		8.00		91.6	70-130			



QC Summary Data

IKAV Energy Inc.Project Name:MUDGE LS 23MReported:1199 Main Ave. Suite 242Project Number:20095-0001Durango CO, 81301Project Manager:Jerrid Brann9/9/2025 3:06:07PM

Nonhalogenated Orga	anics by EPA 8015D - GRO
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Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

	Resuit	Liiiit	Level	resurt	Kec	Lillits	ICI D	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2536085-BLK1)							Prepared: 0	9/05/25 Ar	nalyzed: 09/07/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.15		8.00		89.4	70-130			
LCS (2536085-BS2)							Prepared: 0	9/05/25 Ar	nalyzed: 09/07/25
Gasoline Range Organics (C6-C10)	48.7	20.0	50.0		97.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.09		8.00		88.7	70-130			
Matrix Spike (2536085-MS2)				Source:	E509038-	02	Prepared: 0	9/05/25 Ar	nalyzed: 09/07/25
Gasoline Range Organics (C6-C10)	48.9	20.0	50.0	ND	97.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.7	70-130			
Matrix Spike Dup (2536085-MSD2)				Source:	E509038-	02	Prepared: 0	9/05/25 Ar	nalyzed: 09/07/25
Gasoline Range Organics (C6-C10)	49.6	20.0	50.0	ND	99.2	70-130	1.50	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			



QC Summary Data

MUDGE LS 23M IKAV Energy Inc. Project Name: Reported: 1199 Main Ave. Suite 242 Project Number: 20095-0001 Durango CO, 81301 9/9/2025 3:06:07PM Project Manager: Jerrid Brann

Durango CO, 81301		Project Manage	r: Jei	rrid Brann					9/9/2023 3:00:0/PM
	Nonha	logenated Or	ganics by	EPA 80151	D - DRO	/ORO			Analyst: HM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2537002-BLK1)							Prepared: 0	9/08/25 A	nalyzed: 09/08/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.9		50.0		93.9	61-141			
LCS (2537002-BS1)							Prepared: 0	9/08/25 A	nalyzed: 09/08/25
Diesel Range Organics (C10-C28)	238	25.0	250		95.3	66-144			
Surrogate: n-Nonane	46.5		50.0		93.0	61-141			
Matrix Spike (2537002-MS1)	2537002-MS1) Source: E509039-02				02	Prepared: 0	9/08/25 A	nalyzed: 09/08/25	
Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	56-156			
Surrogate: n-Nonane	49.0		50.0		98.0	61-141			
Matrix Spike Dup (2537002-MSD1)				Source:	E509039-	02	Prepared: 0	9/08/25 A	nalyzed: 09/08/25
Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.2	56-156	5.02	20	
Surrogate: n-Nonane	47.5		50.0		95.1	61-141			

Chloride

QC Summary Data

IKAV Energy Inc.		Project Name:	M	IUDGE LS 23	M				Reported:				
1199 Main Ave. Suite 242		Project Number:		0095-0001									
Durango CO, 81301		Project Manager	: Je	errid Brann					9/9/2025 3:06:07PM				
Anions by EPA 300.0/9056A Analyst: TP													
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit					
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes				
Blank (2537015-BLK1)							Prepared: 0	9/08/25 A	nalyzed: 09/08/25				
Chloride	ND	20.0											
LCS (2537015-BS1)							Prepared: 0	9/08/25 A	nalyzed: 09/08/25				
Chloride	262	20.0	250		105	90-110							
Matrix Spike (2537015-MS1)	Matrix Spike (2537015-MS1)							9/08/25 A	nalyzed: 09/08/25				
Chloride	263	20.0	250	ND	105	80-120							
Matrix Spike Dup (2537015-MSD1)				Source:	E509039-	04	Prepared: 0	9/08/25 A	nalyzed: 09/08/25				

250

20.0

105

80-120

0.177

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

IKAV Energy Inc.	Project Name:	MUDGE LS 23M	
1199 Main Ave. Suite 242	Project Number:	20095-0001	Reported:
Durango CO, 81301	Project Manager:	Jerrid Brann	09/09/25 15:06

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



						Chain	or Cus	toay										138	>			Pi	'age <u> </u>
	Clie	ent Inform	nation		Test	Invoice Information	<u> </u>				L	ab Us	se O	nly			Π	to	ΔΤ		10.00	Stat	
	KAV Energy				1	Company: IKAV Energy			Lab '	WO#					ber	—	10	72D		TStd		CO UT	
Project Name: MUDGE LS 23 M				m		Address: 1199 Main Ave Suite 1		\equiv \mid	Lab V E5	39	103	'2ر	130	995	iber •00	ا_اه		灰	1	又		1	+
	Manager: Jer					City, State, Zip: Durango, CO 81	1301	[<u> </u>		- 3								-				
	:1199 Main A					Phone: 970-394-0250							An:	alysis	s and	Met	hod					PA Progr	am
	te, Zip: Dura	ngo, CO 8	<u> 1301</u>			Email: jerrid.brann@ikavenerg	<u>zy.com</u>		. 1	1 1	1 '	'			'	['			Γ	Τ	SDWA	CWA	RCRA
	<u>70-39-0250</u> rrid.brann@il	lesuppora			.	Miscellaneous:				1!	ا ا	'		'	'	1 '					<u></u>	<u></u>	<u> </u>
<u>Cilidii.jei</u>	ria.pramien	Kavenergy	7.COIII		_ L					1 gg 1	8015	'		ੵ	'	1 '		₉₀			Complian		or N
<u>, to knobbas n</u>	<u>ilizi intendeputto gu</u>		<u>., </u>	Sampl	e Informa	<u>ation</u>	<u>1965 8 5 - 6</u>		\dashv	اَمُ	À	221	92	l g	Ę	¥	etak	8	8915		PWSID#		
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field	Lal Num	b nber	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NIM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	ECMC Table 915-1			Remarks	S
8:18	9-5-25	5016	1	5506	Ν.	SIDEWALL		1		X	X	X		X							5.4		
8:23	9-5-25	SOIL	1	5507	E.	SIDEUALL		2		X	х	х		X							5.2		
8:27	9-5-25	.S01L	1	5508	<u>5,</u>	SIDEWALL SIDEWALL SIDEWALL SE COMP		3	,	×	χ	X		X							5.4		
8:33	9-5-25	5016		5509	<u>W.</u>	SIDEWALL		4		X	x	χ		X							5.0		
8:40	9-5-25	SOIL		5510	<u>BA</u>	st comp		5	,	X	X	χ		X							5.1		
			<u> </u>					$oldsymbol{ol}}}}}}}}}}}}}}}}}}$															
						-		\perp															
	nal Instruction																						
				this sample. I	am aware th	hat tampering with or intentionally mislabelin				te or t	ime of	f collec	tion is:	consid	ered fr	aud an	nd may	/ be gr	ounds	for lega	al action.		
		9:53	Received by (Fignature)	7	5.2	5	Πœ.	:5:	3								tion must be received on ice the day they are 't an avg temp above 0 but less than 6 °C on						
/	ed by: (Signatur		Date		me	Received by: (Signature)	Date			Time					Rece	eived	on i	ce:		ab Us N	se Only		
Relinquish	ed by: (Signatur	e)	Date	Tin	ne	Received by: (Signature)	Date			Time					T1				T2	•		T3	
Relinquish	ed by: (Signatur	e)	Date	Tin	ле	Received by: (Signature)	Date		1	Time					AVG	Tem	םי C°מי						
Sample Mat	trix: S - Soil , Sd - Sc	olid, Sg - Slud	ge, A - Aqueo	us, O - Other			Con	tainer	Type:	: g - g	Jass,	p - p	oly/p	astic	, ag -	ambe	er gla	SS, V·	- VOA	$\overline{}$			

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples

is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Printed: 9/5/2025 10:43:38AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

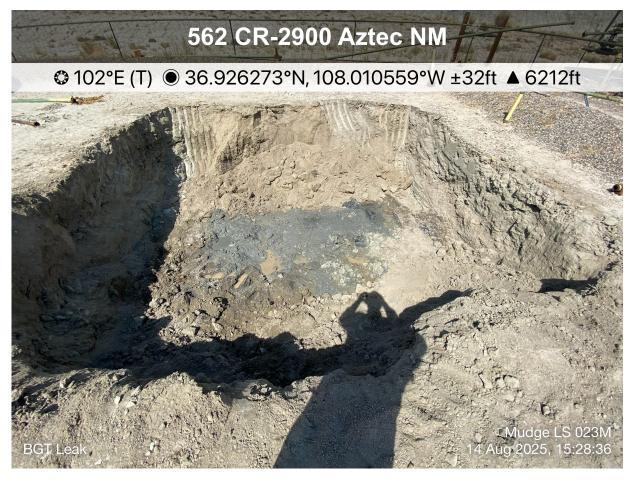
Client:	IKAV Energy Inc.	Date Received:	09/05/25 09	9:53	Work Order ID:	E509039
Phone:	(970) 828-4060	Date Logged In:	09/05/25 10	0:40	Logged In By:	Caitlin Mars
Email:	jerrid.brann@ikavenergy.com	Due Date:	09/09/25 0	7:00 (2 day TAT)		
Chain of	Custody (COC)					
	ne sample ID match the COC?		Yes			
	ne number of samples per sampling site location ma	tch the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: Jerrid Bran	<u>nn</u>	
	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes			
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes		<u>Commen</u>	ts/Resolution
Sample T	<u>urn Around Time (TAT)</u>					
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C	<u>Cooler</u>					
7. Was a s	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was the	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes,	were custody/security seals intact?		NA			
12. Was th	e sample received on ice?		Yes			
12 0	Note: Thermal preservation is not required, if samples ar 15 minutes of sampling					
	OC for individual sample temps. Samples outside o	10°C-6°C will be	recorded in	i comments.		
Sample C			NT.			
	queous VOC samples present?		No NA			
	OC samples collected in VOA Vials?		NA NA			
	head space less than 6-8 mm (pea sized or less)?					
	trip blank (TB) included for VOC analyses?	0	NA			
	on-VOC samples collected in the correct containers		Yes			
	appropriate volume/weight or number of sample contain	ners conected?	Yes			
Field Lab		·····otion				
	field sample labels filled out with the minimum info ample ID?	offication.	Yes			
	ate/Time Collected?		Yes			
C	ollectors name?		Yes			
Sample P	reservation_					
21. Does	the COC or field labels indicate the samples were p	reserved?	No			
22. Are sa	ample(s) correctly preserved?		NA			
24. Is lab	filtration required and/or requested for dissolved m	etals?	No			
Multipha	se Sample Matrix					
26. Does	the sample have more than one phase, i.e., multipha	se?	No			
27. If yes,	does the COC specify which phase(s) is to be analy	yzed?	NA			
Subcontr	act Laboratory					
	amples required to get sent to a subcontract laborato	ry?	No			
	subcontract laboratory specified by the client and i	•	NA	Subcontract Lab: NA		
Client Ir	<u>struction</u>					

Date

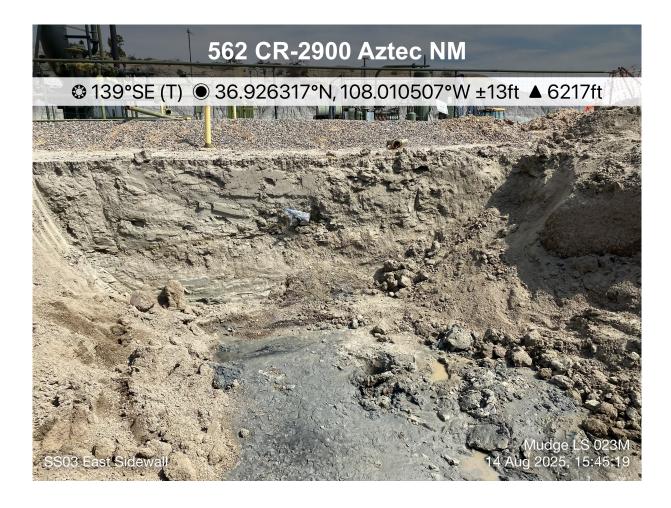




























Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 532218

CONDITIONS

Operator:	OGRID:
SIMCOE LLC	329736
1199 Main Ave., Suite 101	Action Number:
Durango, CO 81301	532218
	Action Type:
	[C-144] Below Grade Tank Plan (C-144B)

CONDITIONS

Created By	Condition	Condition Date
joel.stone	Upon the cessation of all production operations in the area associated with well API 30-045-30632 (Mudge LS #023M), the operator shall complete the requirements of 19.15.17.13 NMAC for the area associated with this below-grade tank and notify the OCD when restoration, reclamation, and revegetation are complete.	12/12/2025