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	nAPP2222849508
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Harvest Four Corners, LLC	OGRID 373888
Contact Name Monica Smith	Contact Telephone 505-632-4625
Contact email msmith@harvestmidstream.com	Incident # (assigned by OCD)
Contact mailing address 1755 Arroyo Drive, Bloom	nfield, NM 87413

Location of Release Source

Latitude	36.53	826		Longitude	.0988
(NAD 83 in decimal degrees to 5 decimal places)					
Site Name	Jicaril	la 119-5,	Lateral D-1	2 Site Type Pipeline	2
Date Release Discovered 8/16/2022		API# (if applicable)			
	-				
Unit Letter	Section	Township	Range	County	
0	25	27N	03W	Rio Arriba	

Surface Owner: State Federal Tribal Private (Name: _

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)	Volume Recovered (bbls)	
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)	
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No	
X Condensate	Volume Released (bbls) 5 gallons	Volume Recovered (bbls)	
X Natural Gas	Volume Released (Mcf) unknown	Volume Recovered (Mcf)	
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)	
Cause of Release Operations pers	onnel received a phone call fro	om Logos producer at 9:30 of a	
line leak on th	e Lateral D-2 line. Operations	personnel arrived onsite and	
found/ heard ga	s blowing. Leak appears to have	e released less than 5 gallons of	
condensate, that was dried and stained on the ground. The line itself is not			
	sh but runs adjacent to the was	-	

traveled to the bank of a near by wash. The line was LOTO.

ge 2	ceived by OCD: 11/14/2022 3:17:57 PM State of New Mexico		Incident ID	
,e 2	Oil Conservation Division	n	District RP	
			Facility ID	
			Application ID	
Was this a major	If YES, for what reason(s) does the reason	esponsible party consi	der this a major release	9
release as defined by	Release product made		-	
19.15.29.7(A) NMAC?				
X Yes 🗌 No				
	otice given to the OCD? By whom? T			
	tion to OCD.enviro@sta 2/16/2022, 1:22 pm C-12			
	Initia	l Response		
The responsible	party must undertake the following actions imme	diately unless they could cr	eate a safety hazard that wo	uld result in injury
The source of the relation \mathbf{T}	**			
The impacted area ha	as been secured to protect human health	and the environment.		
Released materials ha	ave been contained via the use of berms	s or dikes, absorbent p	ads, or other containme	ent devices.
		· 1		
	ecoverable materials have been remove	-	priately.	
All free liquids and r	ecoverable materials have been remove d above have <u>not</u> been undertaken, exp	ed and managed approp	oriately.	
All free liquids and r		ed and managed approp	priately.	
All free liquids and r		ed and managed approp	priately.	
All free liquids and r		ed and managed approp	oriately.	
All free liquids and r		ed and managed approp	priately.	
All free liquids and r		ed and managed approp	priately.	
All free liquids and r	d above have <u>not</u> been undertaken, exp	ed and managed approp		of a release. If remediation
All free liquids and r If all the actions describe Per 19.15.29.8 B. (4) NM has begun, please attach	d above have <u>not</u> been undertaken, exp AC the responsible party may commen a narrative of actions to date. If reme	ad and managed approp lain why: nce remediation immedial efforts have been	diately after discovery successfully complete	d or if the release occurred
All free liquids and r If all the actions describe Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containment	d above have <u>not</u> been undertaken, exp AC the responsible party may commen a narrative of actions to date. If reme nt area (see 19.15.29.11(A)(5)(a) NMA	ed and managed approp lain why: nce remediation immedial efforts have been C), please attach all in	diately after discovery successfully complete formation needed for c	d or if the release occurred
All free liquids and r If all the actions describe Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containmen I hereby certify that the info	d above have <u>not</u> been undertaken, exp AC the responsible party may commen a narrative of actions to date. If reme nt area (see 19.15.29.11(A)(5)(a) NMA prmation given above is true and complete to	ed and managed approp lain why: nce remediation immedial efforts have been C), please attach all in o the best of my knowled	diately after discovery successfully complete formation needed for c	d or if the release occurred closure evaluation. ursuant to OCD rules and
All free liquids and r If all the actions describe Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containmen I hereby certify that the info regulations all operators are public health or the environ	A above have <u>not</u> been undertaken, exp MAC the responsible party may commen a narrative of actions to date. If reme nt area (see 19.15.29.11(A)(5)(a) NMA prmation given above is true and complete to required to report and/or file certain release ment. The acceptance of a C-141 report by	ad and managed approp lain why: nce remediation immedial efforts have been C), please attach all in o the best of my knowled e notifications and perfor the OCD does not reliev	diately after discovery successfully complete formation needed for c ge and understand that pu m corrective actions for r e the operator of liability	d or if the release occurred closure evaluation. ursuant to OCD rules and eleases which may endanger should their operations have
All free liquids and r If all the actions describe Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containmen I hereby certify that the info regulations all operators are public health or the environ failed to adequately investig	A above have <u>not</u> been undertaken, exp AC the responsible party may commen a narrative of actions to date. If reme nt area (see 19.15.29.11(A)(5)(a) NMA prmation given above is true and complete to required to report and/or file certain release ment. The acceptance of a C-141 report by gate and remediate contamination that pose a	ad and managed approp lain why: nce remediation immedial efforts have been C), please attach all in o the best of my knowled e notifications and perfor the OCD does not reliev a threat to groundwater, s	diately after discovery successfully complete formation needed for c ge and understand that pu m corrective actions for r e the operator of liability surface water, human hea	d or if the release occurred closure evaluation. ursuant to OCD rules and eleases which may endanger should their operations have lth or the environment. In
All free liquids and r If all the actions describe Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containmen I hereby certify that the info regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance o and/or regulations.	A above have <u>not</u> been undertaken, exp MAC the responsible party may commen a narrative of actions to date. If reme nt area (see 19.15.29.11(A)(5)(a) NMA primation given above is true and complete to required to report and/or file certain release ment. The acceptance of a C-141 report by gate and remediate contamination that pose a of a C-141 report does not relieve the operation	ad and managed approp lain why: nce remediation immedial efforts have been C), please attach all in o the best of my knowled e notifications and perfor the OCD does not reliev a threat to groundwater, s	diately after discovery successfully complete formation needed for c ge and understand that pu m corrective actions for r e the operator of liability surface water, human hea	d or if the release occurred closure evaluation. ursuant to OCD rules and eleases which may endanger should their operations have lth or the environment. In
All free liquids and r If all the actions describe Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containmen I hereby certify that the info regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance o and/or regulations.	A above have <u>not</u> been undertaken, exp AC the responsible party may comment a narrative of actions to date. If rement a rarea (see 19.15.29.11(A)(5)(a) NMA commation given above is true and complete to required to report and/or file certain released ment. The acceptance of a C-141 report by gate and remediate contamination that pose a of a C-141 report does not relieve the operator a Smith	ad and managed approp lain why: nce remediation immedial efforts have been C), please attach all im o the best of my knowled e notifications and perfor the OCD does not reliev a threat to groundwater, s or of responsibility for co	diately after discovery successfully complete formation needed for c lge and understand that pu m corrective actions for r e the operator of liability surface water, human hea ompliance with any other	d or if the release occurred closure evaluation. Irsuant to OCD rules and eleases which may endanger should their operations have lth or the environment. In federal, state, or local laws
All free liquids and r If all the actions describe Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containmen I hereby certify that the info regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance o and/or regulations.	A above have <u>not</u> been undertaken, exp AC the responsible party may comment a narrative of actions to date. If rement a rarea (see 19.15.29.11(A)(5)(a) NMA commation given above is true and complete to required to report and/or file certain released ment. The acceptance of a C-141 report by gate and remediate contamination that pose a of a C-141 report does not relieve the operator a Smith	ad and managed approplain why: nce remediation immedial efforts have been C), please attach all in the best of my knowled e notifications and perfor the OCD does not reliev a threat to groundwater, so or of responsibility for con- Title: Envi:	diately after discovery successfully complete formation needed for c ge and understand that pu m corrective actions for r e the operator of liability surface water, human hea ompliance with any other ronmental Spe	d or if the release occurred closure evaluation. Irsuant to OCD rules and eleases which may endanger should their operations have lth or the environment. In federal, state, or local laws
All free liquids and r If all the actions describe Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containmen I hereby certify that the info regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance o and/or regulations.	A above have <u>not</u> been undertaken, exp AC the responsible party may comment a narrative of actions to date. If rement a rarea (see 19.15.29.11(A)(5)(a) NMA commation given above is true and complete to required to report and/or file certain released ment. The acceptance of a C-141 report by gate and remediate contamination that pose a of a C-141 report does not relieve the operator a Smith	ad and managed approplain why: nce remediation immedial efforts have been C), please attach all in the best of my knowled e notifications and perfor the OCD does not reliev a threat to groundwater, so or of responsibility for con- Title: Envi:	diately after discovery successfully complete formation needed for c ge and understand that pu m corrective actions for r e the operator of liability surface water, human hea ompliance with any other ronmental Spe	d or if the release occurred closure evaluation. Irsuant to OCD rules and eleases which may endanger should their operations have lth or the environment. In federal, state, or local laws
All free liquids and r If all the actions describe Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containment I hereby certify that the informed regulations all operators are public health or the environment failed to adequately investig addition, OCD acceptance of and/or regulations. Monip Printed Name: Signature: msmith@har	A above have <u>not</u> been undertaken, exp AC the responsible party may comment a narrative of actions to date. If rement a rarea (see 19.15.29.11(A)(5)(a) NMA commation given above is true and complete to required to report and/or file certain released ment. The acceptance of a C-141 report by gate and remediate contamination that pose a of a C-141 report does not relieve the operator a Smith	ad and managed approplain why: here remediation immedial efforts have been C), please attach all in the best of my knowled e notifications and perfor the OCD does not reliev a threat to groundwater, so or of responsibility for co Title: Envi: Date:8/	diately after discovery successfully complete formation needed for c ge and understand that pu m corrective actions for r e the operator of liability surface water, human hea ompliance with any other ronmental Spe	d or if the release occurred closure evaluation. Insuant to OCD rules and eleases which may endanger should their operations have lth or the environment. In federal, state, or local laws ccialist
All free liquids and r If all the actions describe Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containmen I hereby certify that the info regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance o and/or regulations. Moni Printed Name: Signature: msmith@har email:	AC the responsible party may commer a narrative of actions to date. If reme nt area (see 19.15.29.11(A)(5)(a) NMA ormation given above is true and complete to required to report and/or file certain release ment. The acceptance of a C-141 report by gate and remediate contamination that pose a of a C-141 report does not relieve the operate .ca Smith	ad and managed approplain why: here remediation immedial efforts have been C), please attach all in the best of my knowled e notifications and perfor the OCD does not reliev a threat to groundwater, so or of responsibility for co Title: Envi: Date:8/	diately after discovery successfully complete formation needed for c lge and understand that pu m corrective actions for r e the operator of liability surface water, human hea ompliance with any other ronmental Spe	d or if the release occurred closure evaluation. Insuant to OCD rules and eleases which may endanger should their operations have lth or the environment. In federal, state, or local laws ccialist
All free liquids and r If all the actions describe Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containment I hereby certify that the infor- regulations all operators are public health or the environn failed to adequately investig addition, OCD acceptance of and/or regulations. Monip Printed Name: Signature: msmith@har email: OCD Only	AC the responsible party may commer a narrative of actions to date. If reme nt area (see 19.15.29.11(A)(5)(a) NMA ormation given above is true and complete to required to report and/or file certain release ment. The acceptance of a C-141 report by gate and remediate contamination that pose a of a C-141 report does not relieve the operate .ca Smith	ed and managed approplain why: nce remediation immedial efforts have been C), please attach all in the best of my knowled e notifications and perfor the OCD does not reliev a threat to groundwater, so or of responsibility for co Title: Envi: Date:8/ Telephone:	diately after discovery successfully complete formation needed for c lge and understand that pu m corrective actions for r e the operator of liability surface water, human hea ompliance with any other ronmental Spe $\frac{16/2022}{05-632-4625}$	d or if the release occurred closure evaluation. Insuant to OCD rules and eleases which may endanger should their operations have lth or the environment. In federal, state, or local laws ccialist

Page 3

Oil Conservation Division

	Page 3 of 3
Incident ID	nAPP2222849508
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(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
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- \boxtimes Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD: 11/14/2022 3:17:57 PM Form C-141 State of New Mexico		vico	Page 4 of		
			Incident ID	nAPP2222849508	
Page 4	Oil Conservation D	1V1S10N	District RP		
			Facility ID		
			Application ID		
regulations all operators a public health or the enviro failed to adequately inves addition, OCD acceptance and/or regulations. Printed Name: _Monic Signature: email:msmith@harv	nformation given above is true and comp are required to report and/or file certain r conment. The acceptance of a C-141 report tigate and remediate contamination that e of a C-141 report does not relieve the or a Smith	elease notifications and perform co ort by the OCD does not relieve the pose a threat to groundwater, surfa perator of responsibility for compl Title:Environmental Date:11/14/20	orrective actions for rele e operator of liability sho ce water, human health iance with any other feo Specialist	ases which may endanger ould their operations have or the environment. In deral, state, or local laws	
OCD Only Received by:JOCE	lyn Harimon	Date:11	/14/2022		

Received by OCD: 11/14/2022 3:17:57 PM Form C-141 State of New Mexico

Page 5

Oil Conservation Division

	Page 5 of.	36
Incident ID	nAPP2222849508	
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: Title:
Signature: Date:
email: Telephone:
OCD Only
Received by: Date:
Approved Approved with Attached Conditions of Approval Denied Deferral Approved
Signature: Date:

•

Page 6

Oil Conservation Division

Incident ID	nAPP2222849508
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)	:e
Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)	
Description of remediation activities	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD ru 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: _Monica Smith Date:11/14/2022 email:msmith@harvestmidstrem.com Telephone: _505-632-4625	
OCD Only	
Received by: Jocelyn Harimon Date: 11/14/2022	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate a remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the response party of compliance with any other federal, state, or local laws and/or regulations.	
Closure Approved by: Date:	
Printed Name: Title:	



November 11, 2022

Jicarilla Apache Nation, Environmental Protection Office Mr. Keith Manwell 25 Hawks Drive Dulce, New Mexico 87528

Re: Remediation Report and Closure Request Jicarilla 119-5, Lateral D-2 Incident # nAPP2222849508 Harvest Four Corners, LLC Rio Arriba County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Harvest Four Corners, LLC (Harvest), presents this *Remediation Report and Closure Request* for the Jicarilla 119-5, Lateral D2 (Site). The Site is located in Unit O of Section 25, Township 27 North, Range 03 West, within the Jicarilla Apache Reservation in Rio Arriba County, New Mexico (Figure 1).

SITE BACKGROUND

On August 16, 2022, Harvest discovered a release near the Jicarilla 119-5 well production pad from the Lateral D-2 pipeline. The release was estimated to be less than five gallons of natural gas condensate and was only observable as dried, staining on the surface soil upon discovery. The pipeline runs adjacent to a wash, and liquids appear to have migrated to the bank of the wash. The line was locked out and tagged out. Harvest submitted notification of the release to the Jicarilla Apache Nation Environmental Protection Office (JANEPO) as well as to the New Mexico Oil Conservation Division (NMOCD). The NMOCD assigned the release incident number nAPP2222849508.

SITE CLOSURE CRITERIA

JANEPO states that the following standards apply to soil remediation activities at sites on the Jicarilla Apache Reservation:

- Chloride: 600 milligrams per kilogram (mg/kg)
- Total Petroleum Hydrocarbons (TPH) as a combination of gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO): 100 mg/kg
- A combination of benzene, toluene, ethylbenzene, and xylenes (BTEX): 50 mg/kg
- Benzene: 10 mg/kg

SOIL SAMPLING AND EXCAVATION ACTIVITIES

Harvest excavated approximately 46 cubic yards of impacted soil that was hauled to the Envirotech Landfarm for disposal. The excavation was approximately ten feet wide, by 35 feet long, by five feet deep. On August 29, 2022, Harvest notified JANEPO by phone and NMOCD via email (Appendix A) of closure sampling. On August 30, 2022, Harvest retained Ensolum to perform field screening and soil sampling activities. Ensolum collected a total of five 5-point composite soil samples from the excavation: samples S-1 through S-5. Sample S-1 was collected from the floor of the excavation and samples S-2 through S-5 from the excavation sidewalls (Figure 2). The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below four degrees Celsius (°C) under strict chain-of-custody procedures to Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico, for analysis of BTEX following EPA Method 8021B; TPH-GRO, TPH-DRO, and TPH-MRO following EPA Method 8015M/D; and chloride following EPA Method 300.0.

SOIL SAMPLING RESULTS

All soil samples collected from the excavation contained concentrations of benzene, total BTEX, total TPH, and chloride that were compliant with JANEPO closure criteria, except soil sample S-3, which contained a concentration of 140 mg/kg of TPH. Soil sample S-3 was collected on the northern wall of the excavation where excavating was halted due to the presence of sandstone. A summary of analytical results is presented on Table 1. Complete laboratory reports are attached as Appendix B.

POTASSIUM PERMANGANATE AMENDMENT

JANEPO approved closure of the release with the slightly elevated TPH concentration in soil sample S-3 with the condition that Harvest apply potassium permanganate (KMnO₄) to the open excavation in the presence of JANEPO. The closure approval letter is included as Appendix C. The JANEPO was notified of the application event on September 22, 2022 (Appendix C).

On September 26, 2022, Harvest retained Ensolum to apply KMnO₄ to the open excavation. Ensolum used approximately 55 pounds of a 98 percent (%) remediation grade KMnO₄, dissolved in solute (potable water) to create an approximately 3% to 5% weight by volume solution. The solution was applied using a fluid transfer pump from a tank mounted on a trailer under low pressure to allow the solution to absorb into sidewalls and floors of excavation. Photographs are included in Appendix D. After the application, the excavation was backfilled with JANEPO-approved soil.

Ensolum appreciates the opportunity to submit this report to JANEPO and the NMOCD on behalf of Harvest. If there are any questions or comments regarding this report, please contact Danny Burns at 303-601-1420 or dburns@ensolum.com.

Received by OCD: 11/14/2022 3:17:57 PM

Harvest Four Corners, LLC Jicarilla 119-5, Lateral D-2

Sincerely, Ensolum, LLC

Brooke Herb Senior Geologist (970) 403-6824 bherb@ensolum.com

Danny Burns Senior Geologist 303-601-1420 dburns@ensolum.com

Attachments:

- Figure 1: Site Location Map
- Figure 2: Site Map
- Table 1: Soil Sample Analytical Results
- Appendix A: NMOCD Notification
- Appendix B: Laboratory Analytical Report
- Appendix C: JANEPO Approval of Closure and Notification of KMnO₄ Application
- Appendix D: Photographic Log

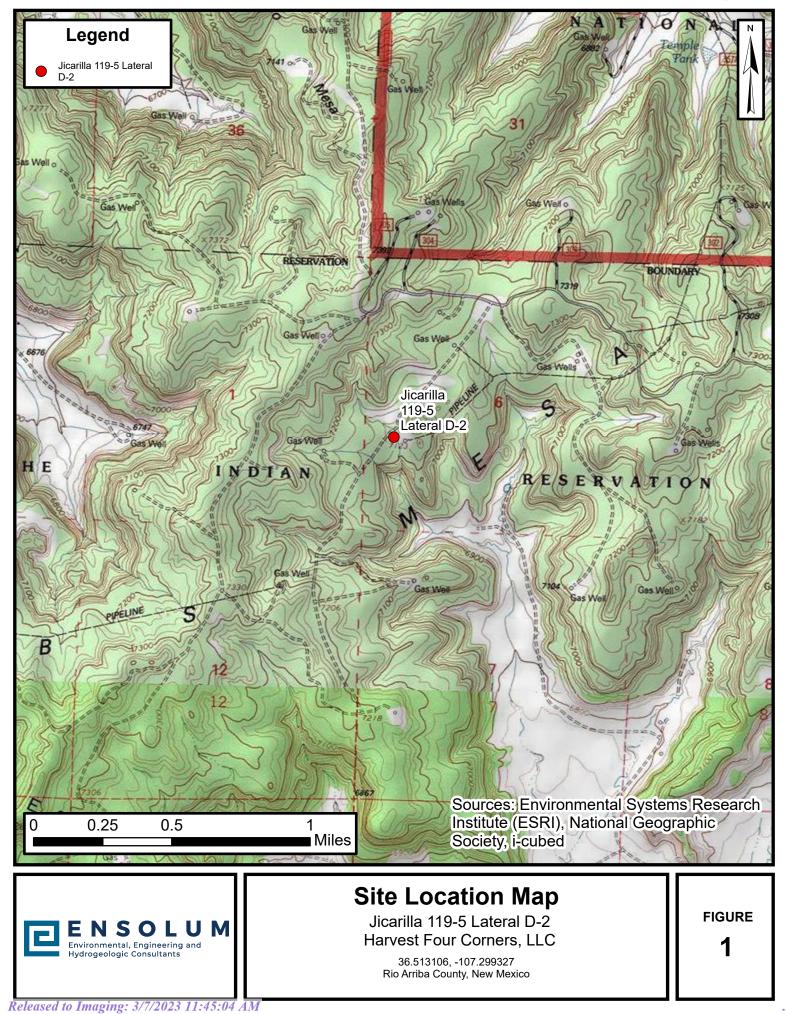
Page 9 of 36



FIGURES

•

Received by OCD: 11/14/2022 3:17:57 PM







TABLE

•

E N S O L U M

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Jicarilla 119-5, Lateral D2 Harvest Four Corners, LLC Rio Arriba County, New Mexico												
Sample Designation	Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
JANEPO and NMOCD Closure Criteria for Soils Impacted by a Release (Groundwater <50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
					Excavation C	onfirmation Soil	Samples					
S-1	8/30/2022	5	<0.088	<0.18	<0.18	<0.35	<0.35	<18	36	<50	<50	110
S-2	8/30/2022	0 - 5	<0.017	<0.033	<0.033	<0.066	<0.066	<3.3	<15	<50	<50	<60
S-3	8/30/2022	0 - 5	<0.10	<0.21	<0.21	1.1	1.1	<21	140	<47	140	340
S-4	8/30/2022	0 - 5	<0.017	<0.033	<0.033	<0.067	<0.067	<3.3	<15	<49	<49	<60
S-5	8/30/2022	0 - 5	<0.016	<0.032	<0.032	<0.063	<0.063	<3.2	<14	<48	<48	<60

Notes:

bgs: below ground surface

JANEPO: Jicarilla Apache Nation Environmental Protection Office

mg/kg: milligrams per kilogram

NE: Not Established

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon

<0.037: indicates result less than the stated laboratory reporting limit (RL)

Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.



APPENDIX A

NMOCD NOTIFICATION

Released to Imaging: 3/7/2023 11:45:04 AM

From:	Brooke Herb
То:	Enviro, OCD, EMNRD; Velez, Nelson, EMNRD
Cc:	Monica Smith
Subject:	nAPP2222849508 Jicarilla 119-5 Sampling Notification
Date:	Monday, August 29, 2022 4:33:00 PM
Attachments:	image001.png image002.png image003.png image004.png

On behalf of Harvest Four Corners, Ensolum is submitting this notification to perform closure soil sampling at the Jicarilla 119-5 (nAPP2222849508) beginning Tuesday August 30, 2022, at noon. The site is located at coordinates 36.53826, -107.0988. The Jicarilla EPO have also been notified and will be onsite. Please reach out with any questions.

Thanks,

Brooke



Brooke Herb Senior Geologist 970-403-6824 Ensolum, LLC in f



APPENDIX B

LABORATORY ANALYTICAL REPORT

Released to Imaging: 3/7/2023 11:45:04 AM



September 06, 2022

Stanley Dean Harvest 1755 Arroyo Dr. Bloomfield, NM 87413 TEL: (505) 632-4475 FAX

RE: Jic 119 5 Lateral D2

OrderNo.: 2208H93

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Stanley Dean:

Hall Environmental Analysis Laboratory received 5 sample(s) on 8/31/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208H93

Date Reported: 9/6/2022

CLIENT:	Harvest	Client Sample ID: S-1
Project:	Jic 119 5 Lateral D2	Collection Date: 8/30/2022 12:00:00 PM
Lab ID:	2208H93-001	Matrix: MEOH (SOIL) Received Date: 8/31/2022 7:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	110	59	mg/Kg	20	8/31/2022 11:13:31 AM	69881
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	DGH
Diesel Range Organics (DRO)	36	15	mg/Kg	1	8/31/2022 12:50:43 PM	69874
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/31/2022 12:50:43 PM	69874
Surr: DNOP	87.8	21-129	%Rec	1	8/31/2022 12:50:43 PM	69874
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	18	mg/Kg	5	8/31/2022 8:59:36 AM	A90700
Surr: BFB	98.3	37.7-212	%Rec	5	8/31/2022 8:59:36 AM	A90700
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.088	mg/Kg	5	8/31/2022 8:59:36 AM	C90700
Toluene	ND	0.18	mg/Kg	5	8/31/2022 8:59:36 AM	C90700
Ethylbenzene	ND	0.18	mg/Kg	5	8/31/2022 8:59:36 AM	C90700
Xylenes, Total	ND	0.35	mg/Kg	5	8/31/2022 8:59:36 AM	C90700
Surr: 4-Bromofluorobenzene	91.1	70-130	%Rec	5	8/31/2022 8:59:36 AM	C90700

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 9

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208H93

Date Reported: 9/6/2022

CLIENT: Harvest		Client Sample ID: S-2
Project:	Jic 119 5 Lateral D2	Collection Date: 8/30/2022 12:05:00 PM
Lab ID:	2208H93-002	Matrix: MEOH (SOIL) Received Date: 8/31/2022 7:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	8/31/2022 11:25:55 AM	69881
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/31/2022 1:12:09 PM	69874
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/31/2022 1:12:09 PM	69874
Surr: DNOP	87.6	21-129	%Rec	1	8/31/2022 1:12:09 PM	69874
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	8/31/2022 9:23:07 AM	A90700
Surr: BFB	97.4	37.7-212	%Rec	1	8/31/2022 9:23:07 AM	A90700
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.017	mg/Kg	1	8/31/2022 9:23:07 AM	C90700
Toluene	ND	0.033	mg/Kg	1	8/31/2022 9:23:07 AM	C90700
Ethylbenzene	ND	0.033	mg/Kg	1	8/31/2022 9:23:07 AM	C90700
Xylenes, Total	ND	0.066	mg/Kg	1	8/31/2022 9:23:07 AM	C90700
Surr: 4-Bromofluorobenzene	91.3	70-130	%Rec	1	8/31/2022 9:23:07 AM	C90700

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 9

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208H93

Date Reported: 9/6/2022

CLIENT: Harvest		Client Sample ID: S-3
Project:	Jic 119 5 Lateral D2	Collection Date: 8/30/2022 12:10:00 PM
Lab ID:	2208H93-003	Matrix: MEOH (SOIL) Received Date: 8/31/2022 7:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	340	60	mg/Kg	20	8/31/2022 11:38:19 AM	69881
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst	DGH
Diesel Range Organics (DRO)	140	14	mg/Kg	1	8/31/2022 1:23:00 PM	69874
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/31/2022 1:23:00 PM	69874
Surr: DNOP	85.5	21-129	%Rec	1	8/31/2022 1:23:00 PM	69874
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	21	mg/Kg	5	8/31/2022 9:46:42 AM	A90700
Surr: BFB	104	37.7-212	%Rec	5	8/31/2022 9:46:42 AM	A90700
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.10	mg/Kg	5	8/31/2022 9:46:42 AM	C90700
Toluene	ND	0.21	mg/Kg	5	8/31/2022 9:46:42 AM	C90700
Ethylbenzene	ND	0.21	mg/Kg	5	8/31/2022 9:46:42 AM	C90700
Xylenes, Total	1.1	0.41	mg/Kg	5	8/31/2022 9:46:42 AM	C90700
Surr: 4-Bromofluorobenzene	88.9	70-130	%Rec	5	8/31/2022 9:46:42 AM	C90700

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 9

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208H93

Date Reported: 9/6/2022

CLIENT: Harvest		Client Sample ID: S-4
Project:	Jic 119 5 Lateral D2	Collection Date: 8/30/2022 12:15:00 PM
Lab ID:	2208H93-004	Matrix: MEOH (SOIL) Received Date: 8/31/2022 7:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	8/31/2022 11:50:43 AM	69881
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/31/2022 1:44:27 PM	69874
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/31/2022 1:44:27 PM	69874
Surr: DNOP	87.4	21-129	%Rec	1	8/31/2022 1:44:27 PM	69874
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	8/31/2022 10:10:10 AM	A90700
Surr: BFB	100	37.7-212	%Rec	1	8/31/2022 10:10:10 AM	A90700
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.017	mg/Kg	1	8/31/2022 10:10:10 AM	C90700
Toluene	ND	0.033	mg/Kg	1	8/31/2022 10:10:10 AM	C90700
Ethylbenzene	ND	0.033	mg/Kg	1	8/31/2022 10:10:10 AM	C90700
Xylenes, Total	ND	0.067	mg/Kg	1	8/31/2022 10:10:10 AM	C90700
Surr: 4-Bromofluorobenzene	92.4	70-130	%Rec	1	8/31/2022 10:10:10 AM	C90700

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit
- Page 4 of 9

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208H93

Date Reported: 9/6/2022

CLIENT: Harvest		Client Sample ID: S-5
Project:	Jic 119 5 Lateral D2	Collection Date: 8/30/2022 12:20:00 PM
Lab ID:	2208H93-005	Matrix: MEOH (SOIL) Received Date: 8/31/2022 7:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	8/31/2022 12:03:08 PM	69881
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/31/2022 1:55:15 PM	69874
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/31/2022 1:55:15 PM	69874
Surr: DNOP	85.8	21-129	%Rec	1	8/31/2022 1:55:15 PM	69874
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.2	mg/Kg	1	8/31/2022 10:33:36 AM	A90700
Surr: BFB	96.9	37.7-212	%Rec	1	8/31/2022 10:33:36 AM	A90700
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.016	mg/Kg	1	8/31/2022 10:33:36 AM	C90700
Toluene	ND	0.032	mg/Kg	1	8/31/2022 10:33:36 AM	C90700
Ethylbenzene	ND	0.032	mg/Kg	1	8/31/2022 10:33:36 AM	C90700
Xylenes, Total	ND	0.063	mg/Kg	1	8/31/2022 10:33:36 AM	C90700
Surr: 4-Bromofluorobenzene	90.4	70-130	%Rec	1	8/31/2022 10:33:36 AN	C90700

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р Reporting Limit
- RL

Page 5 of 9

Client: Project:	Harvest Jic 119 5	Lateral D2	2								
Sample ID: I	MB-69881	SampT	ype: ml	olk	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch	n ID: 69	881	F	RunNo: 9	0702				
Prep Date:	8/31/2022	Analysis D	ate: 8/	31/2022	S	SeqNo: 32	243311	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID: I	LCS-69881	SampT	ype: Ics	5	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	n ID: 69	881	F	RunNo: 9	0702				
Prep Date:	8/31/2022	Analysis D	ate: 8/	31/2022	S	SeqNo: 32	243312	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		15	1.5	15.00	0	96.7	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

WO#: 2208H93 06-Sep-22

Page 2	25 oj	f 36
--------	-------	------

WO#:	2208H93

06-Sep-22

Client: Project:	Harvest Jic 119 5	Lateral D2									
Sample ID:	LCS-69874	SampTyp	e: LC	s	Test	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	LCSS	Batch II): 69	874	R	RunNo: 9	0697				
Prep Date:	8/31/2022	Analysis Date	e: 8/	31/2022	S	SeqNo: 3	241478	Units: mg/k	٢g		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	37	15	50.00	0	74.3	64.4	127			
Surr: DNOP		3.7		5.000		73.5	21	129			
Sample ID:	MB-69874	SampTyp	e: Me	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	PBS	Batch II): 69	874	R	RunNo: 9	0697				
Prep Date:	8/31/2022	Analysis Date	e: 8/	31/2022	S	SeqNo: 3	241482	Units: mg/k	٤g		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	ND	15								
Motor Oil Rang	e Organics (MRO)	ND	50								
Surr: DNOP		8.5		10.00		84.7	21	129			
Sample ID:	2208H93-001AMS	SampTyp	e: MS	6	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	S-1	Batch I): 69	874	R	RunNo: 9	0697				
Prep Date:	8/31/2022	Analysis Date	e: 8/	31/2022	S	SeqNo: 3	241741	Units: mg/k	٤g		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	84	15	49.02	36.41	96.7	36.1	154			
Surr: DNOP		3.4		4.902		70.2	21	129			
Sample ID:	2208H93-001AMS	D SampTyp	e: MS	SD	Test	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	S-1	Batch II): 69	874	R	RunNo: 9	0697				
Prep Date:	8/31/2022	Analysis Date	e: 8/	31/2022	S	SeqNo: 3	241742	Units: mg/k	٤g		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	84	14	48.08	36.41	98.1	36.1	154	0.289	33.9	
Surr: DNOP		3.5		4.808		72.6	21	129	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank

E Estimated value

- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

WO#:	2208H9	3
		-

06-Sep-22

Client:	Harvest										
Project:	Jic 119 5	Lateral D2									
Sample ID: I	mb	SampTy	/pe: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID:	PBS		ID: A9			RunNo: 9			Ū		
Prep Date:	•	Analysis Da	-			SeqNo: 32		Units: mg/K	a		
								Ū	•		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Surr: BFB	e Organics (GRO)	ND 960	5.0	1000		96.0	37.7	010			
		960		1000		96.0	37.7	212			
Sample ID: 2	2.5ug gro Ics	SampTy	/pe: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	е	
Client ID:	LCSS	Batch	ID: A9	0700	F	RunNo: 90	0700				
Prep Date:		Analysis Da	ate: 8/	31/2022	S	SeqNo: 32	241884	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	Organics (GRO)	22	5.0	25.00	0	88.9	72.3	137			
Gasonine range	organics (Orto)	22	0.0	20.00	0	00.0	72.0	107			
Surr: BFB	organics (Crto)	1900	0.0	1000	0	187	37.7	212			
Surr: BFB	2208h93-001ams			1000		187	37.7	-	line Rang	e	
Surr: BFB	2208h93-001ams	1900 SampTy		1000 3	Tes	187	37.7 PA Method	212	line Rang	e	
Surr: BFB	2208h93-001ams	1900 SampTy	/pe: M\$ ID: A9	1000 3 0700	Tes	187 tCode: EF	37.7 PA Method	212	U	e	
Surr: BFB Sample ID: 2 Client ID: 3	2208h93-001ams	1900 SampTy Batch	/pe: M\$ ID: A9	1000 5 0700 31/2022	Tes	187 tCode: EF RunNo: 90 SeqNo: 32	37.7 PA Method	212 8015D: Gaso	U	e RPDLimit	Qual
Surr: BFB Sample ID: 2 Client ID: 2 Prep Date: Analyte	2208h93-001ams	1900 SampTy Batch Analysis Da	/pe: M\$ ID: A9 ate: 8 /	1000 5 0700 31/2022	Tes F S	187 tCode: EF RunNo: 90 SeqNo: 32	37.7 PA Method 0700 241885	212 8015D: Gaso Units: mg/K	g		Qual
Surr: BFB Sample ID: 2 Client ID: 2 Prep Date: Analyte	2208h93-001ams S-1	1900 SampTy Batch Analysis Da Result	/pe: MS ID: A9 ate: 8/ PQL	1000 5 0700 31/2022 SPK value	Tes F SPK Ref Val	187 tCode: EF RunNo: 9 SeqNo: 32 %REC	37.7 PA Method 0700 241885 LowLimit	212 8015D: Gaso Units: mg/K HighLimit	g		Qual
Surr: BFB Sample ID: 2 Client ID: 2 Prep Date: Analyte Gasoline Range Surr: BFB	2208h93-001ams S-1	1900 SampTy Batch Analysis Da Result 88 7000	/pe: MS ID: A9 ate: 8/ <u>PQL</u> 18	1000 5 0700 31/2022 SPK value 87.90 3516	Tes F SPK Ref Val 0	187 tCode: EF RunNo: 90 SeqNo: 32 %REC 99.6 200	37.7 PA Method 0700 241885 LowLimit 70 37.7	212 8015D: Gaso Units: mg/K HighLimit 130	g %RPD	RPDLimit	Qual
Surr: BFB Sample ID: 2 Client ID: 2 Prep Date: Analyte Gasoline Range Surr: BFB	2208h93-001ams S-1 • Organics (GRO) 2208h93-001amsd	1900 SampTy Batch Analysis Da Result 88 7000 SampTy	/pe: MS ID: A9 ate: 8/ <u>PQL</u> 18	1000 3 0700 31/2022 SPK value 87.90 3516 35	Tes F SPK Ref Val 0 Tes	187 tCode: EF RunNo: 90 SeqNo: 32 %REC 99.6 200	37.7 PA Method 0700 241885 LowLimit 70 37.7 PA Method	212 8015D: Gaso Units: mg/K HighLimit 130 212	g %RPD	RPDLimit	Qual
Surr: BFB Sample ID: 2 Client ID: 2 Prep Date: Analyte Gasoline Range Surr: BFB Sample ID: 2	2208h93-001ams S-1 • Organics (GRO) 2208h93-001amsd	1900 SampTy Batch Analysis Da Result 88 7000 SampTy	ype: MS ID: A9 ate: 8/ PQL 18 ype: MS ID: A9	1000 5 0700 31/2022 SPK value 87.90 3516 5D 0700	Tes F SPK Ref Val 0 Tes F	187 tCode: EF RunNo: 96 SeqNo: 32 %REC 99.6 200 tCode: EF	37.7 PA Method 0700 241885 LowLimit 70 37.7 PA Method 0700	212 8015D: Gaso Units: mg/K HighLimit 130 212	g %RPD line Rang	RPDLimit	Qual
Surr: BFB Sample ID: 2 Client ID: 2 Prep Date: Analyte Gasoline Range Surr: BFB Sample ID: 2 Client ID: 2	2208h93-001ams S-1 • Organics (GRO) 2208h93-001amsd	1900 SampTy Batch Analysis Da Result 88 7000 SampTy Batch	ype: MS ID: A9 ate: 8/ PQL 18 ype: MS ID: A9	1000 3 0700 31/2022 SPK value 87.90 3516 350 0700 31/2022	Tes F SPK Ref Val 0 Tes F	187 tCode: EF RunNo: 90 SeqNo: 32 %REC 99.6 200 tCode: EF RunNo: 90 SeqNo: 32	37.7 PA Method 0700 241885 LowLimit 70 37.7 PA Method 0700	212 8015D: Gaso Units: mg/K HighLimit 130 212 8015D: Gaso	g %RPD line Rang	RPDLimit	Qual
Surr: BFB Sample ID: 2 Client ID: 2 Prep Date: Analyte Gasoline Range Surr: BFB Sample ID: 2 Client ID: 2 Prep Date: Analyte	2208h93-001ams S-1 • Organics (GRO) 2208h93-001amsd	1900 SampTy Batch Analysis Da Result 88 7000 SampTy Batch Analysis Da	/pe: MS ID: A9 ate: 8/ PQL 18 /pe: MS ID: A9 ate: 8/	1000 3 0700 31/2022 SPK value 87.90 3516 350 0700 31/2022	Tes F SPK Ref Val 0 Tes F S	187 tCode: EF RunNo: 90 SeqNo: 32 %REC 99.6 200 tCode: EF RunNo: 90 SeqNo: 32	37.7 PA Method 0700 241885 LowLimit 70 37.7 PA Method 0700 241886	212 8015D: Gaso Units: mg/K HighLimit 130 212 8015D: Gaso Units: mg/K	g %RPD line Rang	RPDLimit e	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 9

WOŧ	#: 2208H	93

06-Sep-22

Client:	Harvest										
Project:		Lateral D	2								
-											
Sample ID: mb		•	уре: МЕ					8021B: Vola	tiles		
Client ID: PBS		Batc	h ID: C9	0700	F	RunNo: 9	0700				
Prep Date:		Analysis E	Date: 8/	31/2022	5	SeqNo: 3	241908	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Bromofluorob	enzene	0.90		1.000		89.8	70	130			
Sample ID: 100ng	btex lcs	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS		Batcl	h ID: C9	0700	F	RunNo: 9	0700				
Prep Date:		Analysis E	Date: 8/	31/2022	S	SeqNo: 3	241909	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.89	0.025	1.000	0	88.9	80	120			
Toluene		0.92	0.050	1.000	0	91.6	80	120			
Ethylbenzene		0.91	0.050	1.000	0	90.6	80	120			
Xylenes, Total		2.7	0.10	3.000	0	90.4	80	120			
Surr: 4-Bromofluorob	enzene	0.92		1.000		92.5	70	130			
Sample ID: 2208h	93-002ams	SampT	Гуре: МS	5	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: S-2		Batc	h ID: C9	0700	F	RunNo: 9	0700				
Prep Date:		Analysis E	Date: 8/	31/2022	S	SeqNo: 3	241910	Units: mg/h	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.59	0.017	0.6636	0	88.8	68.8	120			
Toluene		0.61	0.033	0.6636	0.008958	90.8	73.6	124			
Ethylbenzene		0.61	0.033	0.6636	0	91.9	72.7	129			
Xylenes, Total		1.8	0.066	1.991	0.03942	90.6	75.7	126			
Surr: 4-Bromofluorob	enzene	0.63		0.6636		94.4	70	130			
Sample ID: 2208h	93-002amsd	I SampT	Гуре: М	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: S-2		Batc	h ID: C9	0700	F	RunNo: 9	0700				
Prep Date:		Analysis E	Date: 8/	31/2022	S	SeqNo: 3	241911	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.57	0.017	0.6636	0	85.5	68.8	120	3.72	20	
Toluene		0.59	0.033	0.6636	0.008958	87.3	73.6	124	3.86	20	
Ethylbenzene		0.59	0.033	0.6636	0	89.5	72.7	129	2.72	20	
Xylenes, Total		1.8	0.066	1.991	0.03942	88.5	75.7	126	2.25	20	
Surr: 4-Bromofluorob	onzene	0.63		0.6636		94.2	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

ved by OCD: 11/	14/2022 3:	17:57 PM	Hal	l Environmen	tal Analysis Labo	oratory			Page 28
ENVIRO ANALY LABOR		L	TEI	2 L: 505-345-39	4901 Hawk Albuquerque, NM 275 FAX: 505-342 hallenvironment	ins NE 87109 Sa 5-4107	ample L	og-In Cł	eck List
Client Name:	Harvest		Work	Order Numb	er: 2208H93			RcptNo:	1
Received By:	Joseph Ald	derette	8/31/202	22 7:40:00 A	M	JA4			
Completed By:	Sean Livin	gston	8/31/202	22 7:53:37 A	M	\leq	lington		
Reviewed By:	KPG	8	31.22						
Chain of Cust					_	_	_		
1. Is Chain of Cu	stody comple	ete?			Yes 🗹	No	Not F	Present	
2. How was the s	ample delive	ered?			Courier				
Log In 3. Was an attemp	ot made to co	ool the sample	es?		Yes 🔽	No []	NA 🗌	
4. Were all sampl	es received	at a temperat	ure of >0° C t	o 6.0°C	Yes 🗹	No [ב		
5. Sample(s) in p	oper contair	ner(s)?			Yes 🗹	No [
6. Sufficient samp	le volume fo	r indicated te	st(s)?		Yes 🔽	No 🗌]		
7. Are samples (e	xcept VOA a	nd ONG) pro	perly preserve	ed?	Yes 🔽	No 🗌]		
8. Was preservati	ve added to	bottles?			Yes 🗌	No 🔽	•	NA 🗌	
9. Received at lea	st 1 vial with	headspace <	:1/4" for AQ V	OA?	Yes 🗌	No 🗌]	NA 🗹	
10. Were any sam	ole containe	rs received br	oken?		Yes	No ៴	# of pre	served	
11. Does paperwor (Note discrepar					Yes 🔽	No 🗆	bottles d	checked	12 unless noted)
12. Are matrices co			of Custody?		Yes 🗹	No 🗌] A	djusted?	
13. Is it clear what	analyses we	re requested?			Yes 🔽	No 🗌]		
14. Were all holding (If no, notify cus					Yes 🗹	No 🗌		ecked by:	n 8/31/22
Special Handlii	ng (if app	licable)							
15. Was client noti	fied of all dis	crepancies w	ith this order?		Yes 🗌	No [NA 🗹	
Person N	lotified:			Date:	J		ANTON"		
By Whor	n: [Via:	eMail	Phone 🗌 F	ax 🗌 In Pe	rson	
Regardin	g: [and a second	
Client Ins	structions:			Children and Children a					
16. Additional rem	arks:								
17. Cooler Inform	a second s	B.		E colonia la la S	all allocations and a				
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By			
1	4.9	Good							

.

Page 1 of 1

0	び	11111. Relinquisted by	Timo.	2022	3:17	::57		2-5 5 9801 25/2	12-2 5 2161 56/2	\$130 1210 S S-3	6-5 5 200 0515	1-5 5 0001 05%	Date Time Matrix Sample Name	EDD (Type)	Accreditation: Az Compliance NELAC Other	Standard Level 4 (Full Validation)	5.	email or Fax#: ada and fi alertichancon	Phone #:		Mailing Address:	Po Mid Stream	e Harvest	of 36 Chain-of-Custody Record
If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this	received by: Via: Date Time	Viat Black Date						1 600 005	Coel oou	Eco las	1 / 201 002	1 the Jan Loch OON	Cooler Temp(including CF): 4, 90 = 4, 9(°C)ContainerPreservativeHEAL No.Type and #Type2208 Hq 3	# of Coolers: /	Sampler: ℓℓℓℓ∂√1 ; On Ice: ≌Yes □ No	Stanley Dean	T	A Project Manager:		Project #:	Jic 119-5 Lateral D-2	Project Name:	□ Standard & Rush 8-3/22	Turn-Around Time: 16%
this possibility. Any sub-contracted data will be clearly notated on the analytical report.	50000	al: Monica Smith									V V		BTEX / MT TPH:8015D 8081 Pestic EDB (Metho PAHs by 83 RCRA 8 Me CI, F, Br, N 8260 (VOA) 8270 (Semi Total Colifor	(GF side od 5 310 etals	RO / DF s/8082 504.1) or 827 or 827	RO / PCI	MRC B's AS	D)	Analysis Request	л	4901 Hawkins NE - Albuquerque NM 87109	T	ANALYSIS LABORATORY	

.

Released to Imaging: 3/7/2023 11:45:04 AM



APPENDIX C

JANEPO APPROVAL OF CLOSURE AND NOTIFICATION OF KMNO4 APPLICATION

Released to Imaging: 3/7/2023 11:45:04 AM

From:	Yahoo Warning
To:	Brooke Herb
Subject:	Re: [EXTERNAL] Re: Harvest - Jic 119 5 Sample results and diagram.
Date:	Thursday, September 22, 2022 8:07:23 AM
Attachments:	image004.png
	image005.png
	image001.png
	image002.png
	image003.png

****EXTERNAL EMAIL****]

Brooke Herb,

Thank you for the proposed date for application of potassium Permanganate, I will plan on being there on said location.

Thank You, K.C. Manwell

On Thursday, September 22, 2022, 06:34:59 AM MDT, Brooke Herb

bherb@ensolum.com> wrote:

K.C.,

Harvest would like to proceed with the Potassium Permanganate application at the Jicarilla 119 5 location on Monday September 26, 2022, at 11:00 AM. Please let us know if that will work.

Thank you,

Brooke



From: Yahoo Warning <<u>kcmanwell@yahoo.com</u>>
Sent: Thursday, September 1, 2022 8:22 AM
To: Monica Smith <<u>msmith@harvestmidstream.com</u>>
Subject: [EXTERNAL] Re: Harvest - Jic 119 5 Sample results and diagram.

CAUTION: External sender. DO NOT open links or attachments from UNKNOWN senders.

Monica,

On behalf of the Jicarilla 119 5 laboratory results and careful review, JANEPO has determined that due to bedrock on the S-3 sample being just above Jicarilla Apache Nation Environmental Closure Standards. Approval is here by granted to proceed with an application of potassium Permanganate as an alternative method to continue as a conditional closure, JANEPO would like to be on location for the proposed application. JANEPO Thanks Harvest-Midstrean for their cooperation in resolving the Incident of Non- Compliance.

Thank You, K.C. Manwell

On Thursday, September 1, 2022, 07:38:07 AM MDT, Monica Smith <<u>msmith@harvestmidstream.com</u>> wrote:

Keith,

Please see the attached results for the Jic 119 5.

Thank you,

Monica Smith

Environmental Specialist

Harvest Four Corners, LLC

msmith@harvestmidstream.com

505-632-4625 (office)

505-947-1852 (cell)



The information contained in this email message is confidential and may be legally privileged and is intended only for the use of the individual or entity named above. If you are not an intended recipient or if you have received this message in error, you are hereby notified that any dissemination, distribution, or copy of this email is strictly prohibited. If you have received this email in error, please immediately notify us by return email or telephone if the sender's phone number is listed above, then promptly and permanently delete this message.

While all reasonable care has been taken to avoid the transmission of viruses, it is the responsibility of the recipient to ensure that the onward transmission, opening, or use of this message and any attachments will not adversely affect its systems or data. No responsibility is accepted by the company in this regard and the recipient should carry out such virus and other checks as it considers appropriate.

The information contained in this email message is confidential and may be legally privileged and is intended only for the use of the individual or entity named above. If you are not an intended recipient or if you have received this message in error, you are hereby notified that any dissemination, distribution, or copy of this email is strictly prohibited. If you have received this email in error, please immediately notify us by return email or telephone if the sender's phone number is listed above, then promptly and permanently delete this message.

While all reasonable care has been taken to avoid the transmission of viruses, it is the responsibility of the recipient to ensure that the onward transmission, opening, or use of this message and any attachments will not adversely affect its systems or data. No responsibility is accepted by the company in this regard and the recipient should carry out such virus and other checks as it considers appropriate.

The information contained in this email message is confidential and may be legally privileged and is intended only for the use of the individual or entity named above. If you are not an intended recipient or if you have received this message in error, you are hereby notified that any dissemination, distribution, or copy of this email is strictly prohibited. If you have received this email in error, please immediately notify us by return email or telephone if the sender's phone number is listed above, then promptly and permanently delete this message.

While all reasonable care has been taken to avoid the transmission of viruses, it is the responsibility of the recipient to ensure that the onward transmission, opening, or use of this message and any attachments will not adversely affect its systems or data. No responsibility is accepted by the company in this regard and the recipient should carry out such virus and other checks as it considers appropriate.



APPENDIX D

PHOTOGRAPHIC LOG

Released to Imaging: 3/7/2023 11:45:04 AM

PHOTOGRAPHIC LOG Jicarilla 119-5, Lateral D-2

Photograph 1 View East of the excavation on August 30, 2022.	
Photograph 2 View East of the excavation on September 26, 2022, during application of the potassium permanganate amendment.	

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

Operator:	OGRID:
Harvest Four Corners, LLC	373888
1755 Arroyo Dr	Action Number:
Bloomfield, NM 87413	158669
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created	Condition	Condition
Ву		Date
nvelez	Closure accepted for the record based on Jicarilla EPO approval.	3/7/2023

CONDITIONS

Page 36 of 36

.

Action 158669

Released to Imaging: 3/7/2023 11:45:04 AM