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

Page 1 of 112

Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Wapiti Operating, LLC	OGRID: 328741	
Contact Name: Randy L. Madison	Contact Telephone: 575-445-6706	
Contact email: rmadison@wapitienergy.com	Incident # (assigned by OCD)	
Contact mailing address: P.O.Box 190, 309 Silver St, Raton, NM 87740		

Location of Release Source

Latitude: N 36.93350

Longitude: <u>W 104.88600</u>

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: 8" Waterline	Site Type: Produced Water Line
Date Release Discovered: 4/8/23	API# (if applicable)

Unit Letter	Section	Township	Range	County
Р	11	31N	19E	Colfax

Surface Owner: State Federal Tribal Private (Name: Vermejo Park Ranch_____

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): 700	Volume Recovered (bbls):670
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Coal Fines and	2 Barrels	2 Barrels
Hydrocarbons		

Cause of Release:

8" Poly produced water line pressured up due to an injection pump failure. The line separated on the side causing about a 6' split.

orm C-141	State of New Mexico	Page 2 of
age 2	Oil Conservation Division	Incident ID
ige 2	On Conservation Division	District RP
		Facility ID
		Application ID
Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party The volume of the release and the fact that it was pro-	
Randy Madison notified,	otice given to the OCD? By whom? To whom? When Samantha McFall, Monica Kuehling, and Rosa Romero ages left. E-Mail was sent to all three parties.	and by what means (phone, email, etc)? b. This took was done at 1300 on 4-9-23. Phone calls
	Initial Response	
The responsible	party must undertake the following actions immediately unless they c	ould create a safety hazard that would result in injury
\square The source of the rele	ease has been stopped.	
	s been secured to protect human health and the environ	ment.
	we been contained via the use of berms or dikes, absorb	
	coverable materials have been removed and managed a	
If all the actions described	above have not been undertaken explain why:	
If all the actions described	d above have <u>not</u> been undertaken, explain why:	
If all the actions described	l above have <u>not</u> been undertaken, explain why:	
If all the actions described	l above have <u>not</u> been undertaken, explain why:	
If all the actions described	l above have <u>not</u> been undertaken, explain why:	
If all the actions described	d above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NM has begun, please attach a	AC the responsible party may commence remediation i	immediately after discovery of a release. If remediation been successfully completed or if the release occurred all information needed for closure evaluation.
Per 19.15.29.8 B. (4) NM has begun, please attach a within a lined containmen I hereby certify that the infor regulations all operators are n public health or the environm failed to adequately investiga addition, OCD acceptance of	AC the responsible party may commence remediation is a narrative of actions to date. If remedial efforts have	been successfully completed or if the release occurred all information needed for closure evaluation. owledge and understand that pursuant to OCD rules and perform corrective actions for releases which may endanger relieve the operator of liability should their operations have rater, surface water, human health or the environment. In
Per 19.15.29.8 B. (4) NM has begun, please attach a within a lined containmen I hereby certify that the infor regulations all operators are n public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name: Randy L.	AC the responsible party may commence remediation is a narrative of actions to date. If remedial efforts have t area (see 19.15.29.11(A)(5)(a) NMAC), please attach mation given above is true and complete to the best of my kn required to report and/or file certain release notifications and bent. The acceptance of a C-141 report by the OCD does not atte and remediate contamination that pose a threat to groundw a C-141 report does not relieve the operator of responsibility <u>Madison</u> Title: <u>HSE & Regul</u>	been successfully completed or if the release occurred all information needed for closure evaluation. owledge and understand that pursuant to OCD rules and perform corrective actions for releases which may endanger relieve the operator of liability should their operations have vater, surface water, human health or the environment. In for compliance with any other federal, state, or local laws atory Specialist, Sr.
Per 19.15.29.8 B. (4) NM. has begun, please attach a within a lined containmen I hereby certify that the infor regulations all operators are n public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name: Randy L. Signature:	AC the responsible party may commence remediation is a narrative of actions to date. If remedial efforts have t area (see 19.15.29.11(A)(5)(a) NMAC), please attach mation given above is true and complete to the best of my kn required to report and/or file certain release notifications and nent. The acceptance of a C-141 report by the OCD does not the and remediate contamination that pose a threat to groundw 'a C-141 report does not relieve the operator of responsibility <u>Madison</u> Title: <u>HSE & Regul</u> <u>Madison</u> Date: <u>4/</u>	been successfully completed or if the release occurred all information needed for closure evaluation. owledge and understand that pursuant to OCD rules and perform corrective actions for releases which may endanger relieve the operator of liability should their operations have vater, surface water, human health or the environment. In for compliance with any other federal, state, or local laws atory Specialist, Sr. /11/23
Per 19.15.29.8 B. (4) NM. has begun, please attach a within a lined containmen I hereby certify that the infor regulations all operators are r public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name: Randy L. Signature:	AC the responsible party may commence remediation is a narrative of actions to date. If remedial efforts have t area (see 19.15.29.11(A)(5)(a) NMAC), please attach mation given above is true and complete to the best of my kn required to report and/or file certain release notifications and hent. The acceptance of a C-141 report by the OCD does not the and remediate contamination that pose a threat to groundw 'a C-141 report does not relieve the operator of responsibility Madison Title: <u>HSE & Regul</u> Date: <u>4</u> /	been successfully completed or if the release occurred all information needed for closure evaluation. owledge and understand that pursuant to OCD rules and perform corrective actions for releases which may endanger relieve the operator of liability should their operations have vater, surface water, human health or the environment. In for compliance with any other federal, state, or local laws atory Specialist, Sr. /11/23
Per 19.15.29.8 B. (4) NM has begun, please attach a within a lined containmen I hereby certify that the infor regulations all operators are n public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name: Randy L. Signature: email:rmadison@wapitie	AC the responsible party may commence remediation is a narrative of actions to date. If remedial efforts have t area (see 19.15.29.11(A)(5)(a) NMAC), please attach mation given above is true and complete to the best of my kn required to report and/or file certain release notifications and nent. The acceptance of a C-141 report by the OCD does not the and remediate contamination that pose a threat to groundw 'a C-141 report does not relieve the operator of responsibility <u>Madison</u> Title: <u>HSE & Regul</u> <u>Madison</u> Date: <u>4/</u>	been successfully completed or if the release occurred all information needed for closure evaluation. owledge and understand that pursuant to OCD rules and perform corrective actions for releases which may endanger relieve the operator of liability should their operations have vater, surface water, human health or the environment. In for compliance with any other federal, state, or local laws atory Specialist, Sr. /11/23
Per 19.15.29.8 B. (4) NM. has begun, please attach a within a lined containmen I hereby certify that the infor regulations all operators are r public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name: Randy L. Signature: Way June email: _rmadison@wapitie	AC the responsible party may commence remediation is a narrative of actions to date. If remedial efforts have t area (see 19.15.29.11(A)(5)(a) NMAC), please attach mation given above is true and complete to the best of my kn required to report and/or file certain release notifications and hent. The acceptance of a C-141 report by the OCD does not the and remediate contamination that pose a threat to groundw a C-141 report does not relieve the operator of responsibility <u>Madison</u> Title: <u>HSE & Regul</u> <u>Madison</u> Date: <u>4/</u> energy.com Telephone: <u>1-</u>	been successfully completed or if the release occurred all information needed for closure evaluation. owledge and understand that pursuant to OCD rules and perform corrective actions for releases which may endanger relieve the operator of liability should their operations have vater, surface water, human health or the environment. In for compliance with any other federal, state, or local laws atory Specialist, Sr. /11/23

Received by OCD: 8/22/2023 2:38:28 PM

Page 3

Oil Conservation Division

Page 3 0f 112
NAPP2310135941

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?	25(ft
Did this release impact groundwater or surface water?	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant	🗌 Yes 🛛 No
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?	
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🔀 No
	🗌 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?	
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🛛 No
	🗌 Yes 🛛 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.

Field data

Data table of soil contaminant concentration data

Depth to water determination

Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release

Boring or excavation logs

Photographs including date and GIS information

Topographic/Aerial maps

Laboratory data including chain of custody

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

	8/22/2023 2:38:28 PM		Page 4 of 112
Form C-141	State of New Mexico	Incident ID	NAPP2310135941
Page 4	Oil Conservation Division	District RP	
		Facility ID	
		Application ID	
public health or t failed to adequate addition, OCD ac and/or regulation Printed Name: Signature:	perators are required to report and/or file certain release notifications and perform the environment. The acceptance of a C-141 report by the OCD does not relieve tely investigate and remediate contamination that pose a threat to groundwater, su cceptance of a C-141 report does not relieve the operator of responsibility for con ns. Randy L. Madison Title: HSE & Regulatory Specia Date:8/21/23 on@wapitienergy.com Telephone:575-445-6706	the operator of liability sh rface water, human health npliance with any other fe list, Sr	ould their operations have or the environment. In deral, state, or local laws
Received by:	Shelly Wells Date: <u>8/2</u>	2/2023	

<i>ceived by OCD: 8/22/202</i> Form C-141		New Mexico		Page 5 o
Page 5		vation Division	Incident ID	NAPP2310135941
	Oli Colisei	valion Division	District RP	
			Facility ID	
			Application II)
		Remediation	Plan	
Remediation Plan Check	tlist: Each of the follow	ving items must be included	in the plan.	
Detailed description o	f proposed remediation	technique		
	PS coordinates showing			
	naterial to be remediated			
Closure criteria is to T		bject to 19.15.29.12(C)(4) NM		
Proposed schedule for	remediation (note if ren	nediation plan timeline is mo	re than 90 days OCD approva	l is required)
Deferral Requests Only:	Each of the following	items must be confirmed as p	part of any request for deferre	al of remediation.
				-
Contamination must b	e in areas immediately u	inder or around production ec	quipment where remediation c	ould cause a major facility
deconstruction.				
Extents of contamination	ion must be fully delinea	ated		
	ion mast se rang active			
Contamination does no	ot cause an imminent ris	k to human health, the enviro	nment, or groundwater.	
I hereby certify that the inf	formation given above is	s true and complete to the bes	t of my knowledge and under	stand that pursuant to OCD
rules and regulations all op	perators are required to r	eport and/or file certain relea	se notifications and perform c	orrective actions for release
which may endanger publi	c health or the environm	ient. The acceptance of a C-1	141 report by the OCD does n	ot relieve the operator of
liability should their opera	tions have failed to adeq	uately investigate and remed	iate contamination that pose a	threat to groundwater,
surface water, human healt	h or the environment. I	n addition, OCD acceptance al, state, or local laws and/or i	of a C-141 report does not reli	eve the operator of
esponsionity for compilar	ice with any other redera	al, state, or local laws and/or l	regulations.	
Printed Name: _Randy L. I	Madison	Title: HSE & R	Regulatory Specialist, Sr.	
			· · · · · · · · · · · · · · · · · · ·	-
Signature: Kanog	Indiso	Date: _8/	/21/23	
email: _rmadison@wapitie			5 6706	
manmauson@wapitie		relephone: _5/5-44	5-6706	
OCD Only				
Received by: Shelly Well	s	Date: 8/2	22/2023	

Date:

Approved with Attached Conditions of Approval

Denied

Deferral Approved

ŭ,

Approved

Signature:

Received by OCD: 8/22/2023 2:38:28 PM

Page 6

State of New Mexico Form C-141

Oil Conservation Division

Fuge 0 0j 112
NAPP2310135941

Incident ID	NAPP2310135941
District RP	
Facility ID	
Application ID	

1.1

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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

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

Description of remediation activities

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. 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: _Randy L. Madison	Title:HSE & Regulatory Specialist, Sr	
Signature: Rang Mod	Date: 8/21/23	
email:rmadison@wapitienergy.com	Telephone: _575-445-6706	

OCD Only

Received by: Shelly Wells

Date: 8/22/2023

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

Closure Approved by:	Nelson Velez	Date:	12/05/2023
Printed Name:	Nelson Velez	Title:	Environmental Specialist - Adv

Randy Madison

**** External Email ****

To whom it may concern (c/o Randy Madison for Wapiti Operating, LLC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2310135941, with the following conditions:

None

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you, Jocelyn Harimon Environmental Specialist 575-748-1283 Jocelyn.Harimon@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive

Santa Fe, NM 87505



Executive Summary

On April 8, 2023 Wapiti Operating, LLC had a major release of produced water on an 8" main water line. This was due to the line pressuring up when and injection pump had mechanical issues and shut down. This resulted in approximately 700 barrels of produced water, coal fines and hydrocarbons used to treat the wells being released on the surfaced.

The water traveled about 530 feet in the north road ditch pooling in a low area on the northside of the road. From that pool Wapiti was able to recover 670 barrels of water because this area is all on solid rock so it did not dissipate into the ground. Some water traveled down the road on the southside of the road about 393 feet. This water collected at the entrance to VPR A-73 gas well. Amount there is unknown none was collected.

All of the soil contaminated with hydrocarbon's was removed from the area. This amounted to 61.25 tons of contaminated soil. It was transferred by Waste Management to Midway Landfill, 8025 Rancho Colorado BLVD., Fountain, CO 80817

Site sampling plan was submitted and approved. Sampling was carried out according to the plan. The samples were analyzed by Test America see supporting documentation.

The results of some of the samples came back over the Total TPH of 100 mg/kg. In consulting with Test America they explained that they cannot determine what are natural occurring organic materials and what came from the spill. The main area where the results were high are in the pond or low area where water collects every time Wapiti experiences a heavy rain (Gully Washer) due to run-off along the road and out of the forest. The forest run-off contains pine needles and duff from the pine trees in the area.

With Wapiti knowing that there are natural organics in that low area and the average THP of all the samples being 101 mg/kg Wapiti is requesting that this spill be closed with no further remediation or sampling.





Ditch North Side of Right #1 N 36, 933 HO East miles 1/2 WINH, 88604 #2 36,93346 4674 #336,9334) 4114 3514 # 4 36,513345 290A #16 36.93348 # 6 36.93349 -330A 1684 # 1 36.93348 104 # 8 36,93346 # 9 36,93345 104,8672 210AL

Moe Atrice Astil # 36.93344 104.88726 Statin Point A-72 +1236,93348 104,88725 (-).A 104.88683 1304 # 36.93346 193H #5 36,832346 247 4-636.93344 307 339 An 115,73,81 # 36.95344 104.8860 g





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Wapiti Operating, LLC nAPP2310135941 Looking East Lo











5 of 112

















TO: Nelson Velez, Environmental Specialist NMOCD District 3 & 4 1000 Rio Brazos Rd. Aztec, NM 87401

FR: Randy L. Madison, HSE & Reg. Specialist Sr.

REF: Major Spill 8" Produced Water Line Failure, Incident # nPP2310135941

Mr. Velez,

Wapiti Operating, LLC is requesting a variance to the required sampling area per 19.15.29.12.D (1a). Wapiti is requesting the 200 square feet requirement be waived to 500 square feet.

The following is justification for the request:

- 1. Water from the leak flowed downhill in the established ditch along the lease road and the bottom of the ditch is solid rock. These conditions increased the impacted area.
- 2. The 8" Produced Water line is trenched through bed rock. This caused the water leak to expand over a larger than normal area.
- 3. The water that pooled in the area on the attached drawing would be well represented with a 500 sqft. sample as the produced water would have the same characteristics. We were able to recover 670 barrels of produced water from this area.

Upon approval of this variance Wapiti will submit a sampling plan per 19.15.29.12.D (2a). See the attached drawing. Thanks for your consideration in this matter.

Sincerely,

Emplison

Randy L. Madison



TO: Nelson Velez, Environmental Specialist NMOCD District 3 & 4 1000 Rio Brazos Rd. Aztec, NM 87401

FR: Randy L. Madison, HSE & Reg. Specialist Sr.

REF: Major Spill 8" Produced Water Line Failure, Incident # nPP2310135941

Mr. Velez, Wapiti Operating, LLC is submitting the following sampling plan for the above-mentioned incident erenced in the attached drawing. #1. Source, area around opening and source pool to the west. 2 Composite Sample with 5 provide the sample of the second #1. Source, area around opening a sampled is to the west, 2 Composite Sample with 5 collection. Total surface area to be sampled is to clean top soil or to bed rock. This area is approximately 597.5 sqtt. #2. North Ditch 1 Composite sample with 5 points of collection. Collection of the samples w 100 linear ft between collection points. This ditch has a collection of the samples w #2. North Ditch 1 Composite sample for points of collection. Collection of the samples w about 100 linear ft between collection points. This ditch has a solid rock bottom. Total area t sampled is approximately 530 squares #3 South Ditch 1 Composite Sample with 5 Points of collection over the 339 linear ft. equally s and the sampled is 339 saft again solid rock bottom. Total area s 1 Composite sample with 5 collection points. The sampling ton soil or bed rock. Total area to be sampled is 560 soft to clean top soil or bed rock. Total and was recovered. 8 Composite samples in this area wi #5 End Point Water pooled in this area and was recovered. 8 Composite samples in this area wi #5 End Point Water pooled in uns a local of the sampled is to clean top soil or to bed rock. Total area with the sampled is to clean top soil or to bed rock. Total area with the sampled is to clean top soil or to bed rock. Total area with the sampled is to clean top soil or to bed rock. Total area with the sampled is to clean top soil or to bed rock. Total area with the sampled is to clean top soil or to bed rock. 3750 sqft. Wapiti Operating is proposing a total of 13 composite sample be done with 5 grabs per sample. The collection of the contaminated soil has been sample. The collection of the contaminated soil has been sample. Wapiti Operating is proposing a total of 13 composite sample be done with 5 grabs per sample. The colle of these samples will take place after the stained and contaminated soil has been remove. The analysis v

Randy L. Madison

P.O. Box 190, 309 Silver Street, Raton, NM 87740



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July 7, 2023

TO: Nelson Velez, Environmental Specialist NMOCD District 3 & 4 1000 Rio Brazos Rd. Aztec, NM 87401

FR: Randy L. Madison, HSE & Reg. Specialist Sr.

REF: Major Spill 8" Produced Water Line Failure, Incident # nPP2310135941. Request for a 45-day extension on the final submission

Mr. Velez,

Wapiti Operating, LLC is a 45 day extension on requirements of the final report on the above referenced incident. This would extend the deadline till August 22, 2023. The reason for the request is we have had some logistic problems on getting the contaminated soil removed. Thank you for your consideration in this matter.

Sincerely,

Maxicon

Randy L. Madison

P.O. Box 190, 309 Silver Street, Raton, NM 87740

Randy Madison

From:	Velez, Nelson, EMNRD <nelson.velez@emnrd.nm.gov></nelson.velez@emnrd.nm.gov>
Sent:	Friday, July 7, 2023 10:56 AM
То:	Randy Madison
Subject:	[EXT]: Re: [EXTERNAL] Extension Request

**** External Email ****

Good morning Randy,

Your 45-day time extension request for NAPP2310135941 8" WATERLINE incident is approved. Remediation Due date has been updated to August 21, 2023 within the incident page.

Regards,

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/



From: Randy Madison <RMadison@WapitiEnergy.com> Sent: Friday, July 7, 2023 9:54 AM To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov> Subject: [EXTERNAL] Extension Request

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Nelson, I have attached a sign request for an extension on the Major Spill. Thanks Randy

Randy L. Madison, HSE & Regulatory Specialist, Sr. Wapiti Operating, LLC P.O. Box 190 309 Silver St.
Raton, NM 87740 Office 575-445-6706 Cell 575-420-1120 rmadison@wapitienergy.com

Your message is ready to be sent with the following file or link attachments:

Extension Signed

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

Received by OCD: 8/22/2023 WASTE MANAGEM	Colorado Landfill 8925 Rancho Color		Page 38 of 112 Original Ticket# 1093908
Ticket Date Payment Type Manual Ticket# Hauling Ticket Route State Waste Co Manifest Destination	Credit Account #	OPE Carrier WM WASTE MANAG Vehicle# 653108-30 Container Driver Check# Billing # 0004632 Gen EPA ID Grid	EMENT Volume
Generator Time In 07/06/2023	118368CO (PARRAFIN IMPACTE) 125-WAPITIOPERATINGLLC WAP Scale 3 15:49:48 Scale 1 3 16:16:03 Outbound	D SOILS) ITI OPERATING LLC (309 SILVE Operator Inbound mdwyer mdwyer	Gross 78840 lb Tare 45020 lb Net 33820 lb Tons 16.91

Site speed limit 15 mph. Must remain within 6 ft of your vehicle.

Prod	luct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2 3	Cont Soil Sp. WT ENERGY-Energy Surc WWM-P-Waste Water	100	16.91	Tons % %				

Total Tax Total Ticket

.

Driver`s Signature

DSCAF

Re	ce	ived by OCD: 8/22/2023 2:38:28 PM				ĩ	Page 39 of 112
1 and 1	4	NDN-HAZARDOUS 1. Generator ID Number 2. Page 1 of 3. E WASTE MANIFEST			4wWaste		H-10-13-08
THE REAL PROPERTY.			800-424 erator's Project A		erent than mailing	address)	516459
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Comments

Site speed limit 15 mph. Must remain within 6 ft of your vehicle.

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WASTE MANAGEMENT

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Page 44 of 112

14.51

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T: Pa Ma Ro St De PC Pr	icket Date ayment Type anual Ticke auling Ticke bute tate Waste (anifest estination	07/19/2023 Credit Acco t# et# Code 516555 118368C0 (P2	unt ARRAFIN IMPAC	Vehicle# 6 Container Driver Check# Billing # Gen EPA ID Grid	23	Volume	
In Ou	Time 07/19/20 t 07/19/20	023 10:16:00 023 11:01:14	Scale Scale 1 Outbound	Operator AMUNDELL AMUNDELL	Inbound	Gross Tare Net	74120 lb 45100 lb 29020 lb

Comments

Site speed limit 15 mph. Must remain within 6 ft of your vehicle.

Proc	duct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2 3	Cont Soil Sp. WT ENERGY-Energy Surc WWM-P-Waste Water	100	14.51	Tons १ १				

Total Tax Total Ticket

Tons

Driver's Signature 05CAK

Page	45	of	<i>112</i>	
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ALL DATE	Å.	NON-HAZARDOUS 1. Generator ID Number WASTE MANIFEST	2 Page 1 of 3 Em	ergency Respon 800-424		4. Waste	Tracking Nu	516555
		Benerator's Name and Mailing Address Dap: Li Operating LUC	Gene			erent than mailing	address)	010000
B illin		309 SIVU	Contract of the					
Surger State		Generation PM 85140 575-400-1 6. Transporter 1: Complete Company Name and Address					Tr	ansporter Phone
		Waste Nongement Charst S - IKess 7. Transporter 2: Complete Company Name and Address	s Wer sq.	keenei	ibro.	Co 800	433	03-722-4292
and a		01/72 02202077			-		m	ansporter Phone
E A L		Basignated Disposal Ficility Manne and Sith Ankrastil BODS Rancho Colorado BIU:)			Facility's Ph	ione:	
No.		Eggs Lancho Colorado Br. Fountain co 80817	-			510	2010	6202
		9. Waste Shipping Name, Description, & Profile Number		10. Con	tainers	11. Total	38) 12. Unit	-8383
and the second				No	Туре	Quantity	Wt./Vol.	
	GENERATOR	Porafin Impoded Souls 11836800		i	3040	14.51		-
		2.			01	ינין־ן		
E. M.								
	1	13. Regulatory Agency: Colorado Department of Public Health and 4300 Cherry Creek Drive South	Environment			mergency		
Ni Grad		Denver, Co 80222-1530				EMTREC (
	1	14, Bill to & Account Number:	/					
	1	5. Contractor/Generator Certification:						
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	ľ	governmental regulations. I hereby certify that the above described waste is not a hazardous was						
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E	X	S. Transporter Acknowledgement of Receipt of Materials	SP	2.11	Mo	<u>~</u>		0718 33
PORT	To	any porter 1) rinted/Typed Name	Signature	1		-		Month Day Year
TRANSPORTER	Tra	ansporter 2 Printed/Typed Name	Bignature	~ ~				Month Day Year
	17	Special Handling Instructions						
Î								
SILITY	18	Discrepancy Indication Space:					19. Tick	6l.#
DESIGNATED FACILITY							110	294909
NATE		Initials of Person noting discrepancy Signature					9.53	Date
DESIG	20.	Management Method/Location						
		ndfill Monofill Location		UF				
		Designated Facility Owner or Operator: Certification of receipt of materials covered by the mar	ifest except as noted Signature	n Item 18		2	1 11	7 Month Day Year
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100	P	C-O 6 10498 (Rev. 9/14)		- Q	11	MA	Ul	07/923

A	NON-HAZARDOUS WASTE MANIFEST	1 Generator ID Number	2 Page 1 of	3 Emergency Respon		4, Waste	Tracking Numb	per a comercia	·¢.
	5. Generator's Name and Mail	inn Arldrace		800-424				516558	
	MARA ME			Generator's Project A	laaress (it almere	nt than mailing	address)		
	Generator's Phone:	All Charles and the second							
	6. Transporter 1: Complete Cor	npany Name and Address	4410					an artica Dha an	
			142-1	08 B	A			sporter Phone	
	7. Transporter 2: Complete Con	npany Name and Address	1 K	26 fizzuro	attant jar	0.014		5-14-) 4	-17-
							Iran	sporter Phone	
	8. Designated Disposal Facility	Name and Site Address				Facility's Pi			
	N. Later March	e adenti in ance				raciny's m	10118-		
	Stars 640	NOTE AMERICAN BIS							
11	The ward	10 66017				719-	80.00	23.03.1	
	P.C. A. A. A. A. A.			10.0-			1001	1. 20Q	
	9. Waste Shipping Name	e, Description, & Profile Number			ntainers	11, Total Quantity	12. Unit Wt./Vol		
	151	S LOVE THE LOT MODELLES		No.	Туре	Quantity	VVL./ VUI		
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-		*							
	13. Regulatory Agency: Colo	rado Department of Public Health and	Environm	ent	En	nergency	Notificati	ion:	
	4300	Cherry Creek Drive South			CHE	MTREC	(800) 424-	9300	
11	Den	ver, Co 80222-1530			24-	hour Toll	Free Nun	nber	
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21.	Designated Facility Owner or C	perator: Certification of receipt of materials covered by the ma	anifest except as	noted in Item 18					
Prit	nted/Typed Name		Signatu	re				Month Day	Year
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169-BLC-O 6 10498 (Rev. 9/14) Released to Imaging: 12/5/2023 12:16:04 PM

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Received by OCD: 8/22/2023 2:38:28 PM

	Colorado Landf 8925 Rancho Co. Fountain, CO, Ph: 719-382-83	30817	dfill	Reprint Ticket#	1094861
Customer Name WAPITIOP Ticket Date 07/18/202 Payment Type Credit Ac Manual Ticket# Hauling Ticket# Route State Waste Code Manifest 516556 Destination PO	count	Vehicle# Container Driver Check# Billing # Gen EPA ID Grid		EMENT Volume	
Profile 118368CO Generator 125-WAPIT	(PARRAFIN IMPAC IOPERATINGLLC W	TED SOILS) APITI OPERATING I	LC (309 SILVE	٤)	
Time In 07/18/2023 14:53:2 Out 07/18/2023 15:40:3 Comments	Scale 8 Scale 1 9 Outbound	Operator mdwyer mdwyer	Inbound	Gross Tare Net Tons	72600 lb 45240 lb 27360 lb 13.68

Site speed limit 15 mph. Must remain within 6 ft of your vehicle.

Prod	uct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
2	Cont Soil Sp. WT ENERGY-Energy Surc WWM-P-Waste Water	100	13.68	Tons % %				

Total Tax Total Ticket

Driver`s Signature

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Rea	cei	wed by OCD: 8/22/2	2023 2:38:28 PM						100	Page	48 of 112
			8				_	Tick	oft	-112914	la bà
No. of Concession, Name	A	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number		2 Page 1 of 3 Eme	rgency Response 800-424-		4. Waste	Tracking Num	516556	
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Non-West Street			mpany Name and Address			Keens	<u>ssb/c</u>		ATTat	nsporter Phone 03 - 13 - 46 Isporter Phone	22
TOTAL NOT	1.3	8975 Fanc	Hame and Sile Augressely ho coloredo	BING				Facility's Ph			
			e, Description, & Profile Number			10. Conta		11. Total Quantity	- 383 12. Unit Wt./Vol.	- 2325	
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and a state		430	orado Department of 0 Cherry Creek Drive ver, Co 80222-1530	Public Health and South	Environment		CH	Emergency EMTREC (I-hour Toll	800) 424	-9300	
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Page 49 of 112

Received by OCD: 8/22/2023 2:38:28 PM

Decomposition of the set of	m i	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID No			2 Page 1 of 3 Em				Tracking M	under Im A Los	centre l	100
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I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transportation according to applicable national and state governmental regulations. I hereby certify that the above described waste is not a hazardous waste defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials. are a signature Month Day f. Transporter 2 Printed/Typed Name f. Transporter Above/degement of Reselut of Materials anaporter 1 Printed/Typed Name f. Transporter Above/degement of Reselut of Materials f. Transporter Above/degement of Reselut of Materials f. Transporter Above/degement of Reselut of Materials f. Transporter 2 Printed/Typed Name f. Transporter 2 Printed/Typed Name f. Transporter 2 Printed/Typed Name f. Transporter 2 Printed/Typed Name f. Transporter 2 Printed/Typed Name f. Transporter 2 Printed/Typed Name f. Transporter 2 Printed/Typed Name f. Transporter 2 Printed/Typed Name f. Signature f. Signature f. Signature f. Signature f. Month Day f. Seedai Handling Instructions f. Seedai Handling Cover or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 18 f. Seedai Handling Instruction for the seedation of the set of the se													
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Randy Madison

From:	Velez, Nelson, EMNRD <nelson.velez@emnrd.nm.gov></nelson.velez@emnrd.nm.gov>
Sent:	Friday, July 14, 2023 7:23 AM
То:	Randy Madison
Subject:	[EXT]: Re: [EXTERNAL] Notification of Sampling

**** External Email ****

Randy,

Thank you for the notice. If an OCD representative is not on-site on the date &/or time given, please sample per 19.15.29 NMAC or from an OCD pre-approved sampling plan. For whatever reason, if the sampling timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of this change may result in the closure sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/



From: Randy Madison <RMadison@WapitiEnergy.com>
Sent: Thursday, July 13, 2023 1:09 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: [EXTERNAL] Notification of Sampling

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Nelson,

This e-mail will serve as notification of Soil Sampling on incident nAPP2310135941. I will sample this incident on 7/19/23 at 0800 hrs. Randy

Randy L. Madison, HSE & Regulatory Specialist, Sr. Wapiti Operating, LLC P.O. Box 190 309 Silver St. Raton, NM 87740 Office 575-445-6706 Cell 575-420-1120 rmadison@wapitienergy.com





























Wapiti Operating, LLC Raton, NM 87740

TABLE 1 Location: Mai SOIL SAMPLE ANALYTICAL RESULTS

ORGID #: 328741

				Total					
		Depth	Benzene	Benzene	TPH GRO	TPH DRO	TPH MRO	Total TPH	Chlorides
Sample Location	Date	(bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Closure Criteria			10	50				100	600
Area #1 Sample #1	7/19/2023	0	0.005	0.005	1.8	29	36	66.8	
Area #1 Sample #2	7/19/2023	2	0.005	0.005	2.7	46	70	118.7	30
Area #2 Sample #1	7/19/2023	1	0.005	0.005	2.2	11	33	46.2	30
Area #3 Sample #1	7/19/2023	1	0.005	0.005	2.2	34	97	133.2	30
Area #4 Sample #1	7/19/2023	0	0.0051	0.0051	2	7.8	23	32.8	30
Area #5 Sample #1	7/19/2023	0	0.0049	0.0049	2.1	25	67	94.1	30
Area #5 Sample #2	7/19/2023	0	0.0051	0.0051	2.1	47	79	128.1	30
Area #5 Sample #3	7/19/2023	0	0.005	0.005	2	37	79	118	30
Area #5 Sample #4	7/19/2023	0	0.0051	0.0051	2.2	36	74	112.2	30
Area #5 Sample #5	7/19/2023	0	0.005	0.005	2.2	11	39	52.2	30
Area #5 Sample #6	7/19/2023	0	0.0052	0.0052	1.9	63	88	152.9	30
Area #5 Sample #7	7/19/2023	0	0.0049	0.0049	4.3	34	77	115.3	30
Area #5 Sample #8	7/19/2023	0	0.005	0.005	2	60	85	147	30
Average								101	
								101	

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram BTEX: Benzene, Toluene, Ethylbenzene, Xylene GRO: Gasoline Range Organics

DRO: Diesel Range Organics MRO: Motor Oil Range Organics TPH: Total Petrolium Hydrocarbons.

Comments: _Do to all the natural organics in the area of the spill the low area where the water collected the Total TPH was over was over the 100 limits. If you average all the samples it comes to 100 mg/kg

n /lb all



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Randy Madison Wapiti Operating LLC 309 Silver Street PO BOX 190 Raton, New Mexico 87740 Generated 8/4/2023 9:29:06 AM

JOB DESCRIPTION

Produced Water Spill

JOB NUMBER

280-179304-1

Eurofins Denver 4955 Yarrow Street Arvada CO 80002

See page two for job notes and contact information.





Eurofins Denver

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization

helly Turner Generated 8/4/2023 9:29:06 AM

Authorized for release by Shelby Turner, Project Manager I Shelby.Turner@et.eurofinsus.com (303)736-0100

Eurofins Denver is a laboratory within TestAmerica Laboratories, Inc., a company within Eurofins Environment Testing Group of Companies

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

Table		Car	4
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Cover Page	1
Table of Contents .	3
Definitions	4
Case Narrative	5
Detection Summary	7
Method Summary	9
Sample Summary	10
Client Sample Results	11
Surrogate Summary	24
QC Sample Results	26
QC Association	33
Chronicle	38
Certification Summary	43
Chain of Custody	44
Receipt Checklists	46

.

3

13

Definitions/Glossary

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

Job ID: 280-179304-1

Froject/Site.	Produced Water Spin
Qualifiers	
GC/MS VOA	
Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
S1+	Surrogate recovery exceeds control limits, high biased.
GC Semi VC	
Qualifier F1	Qualifier Description MS and/or MSD recovery exceeds control limits.
	- 114
General Che	
Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit
Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
a a	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
2C	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
EF	Toxicity Equivalent Factor (Dioxin)
EQ	Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Job ID: 280-179304-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Case Narrative

Client: Wapiti Operating LLC

Project: Produced Water Spill

Report Number: 280-179304-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 7/20/2023 9:58 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.6° C and 5.8° C.

The ink on the Tared VOA Vials received for GRO analysis is smudged on all sample labels but still able to be read. The laboratory was able to correctly identify the containers to their associated samples.

No sample volume was received for the following samples: Area #5 Sample # 1 (280-179304-6) and Area #5 Sample # 4 (280-179304-9). Therefore, analysis was not logged on these samples. Upon secondary review, the following samples were not received: Area #5 Sample # 1 (280-179304-6), Area #5 Sample # 2 (280-179304-7), Area #5 Sample # 3 (280-179304-8) and Area #5 Sample # 4 (280-179304).. They were logged in per COC but no volume was received. The sample control technician mistook the sample IDs of sample numbers -110 through -13 as sample numbers -6 through -9. Matched by ID, date, and time.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples Area #1 Sample # 1 (280-179304-1), Area #1 Sample # 2 (280-179304-2), Area #2 Sample # 1 (280-179304-3), Area #3 Sample # 1 (280-179304-4), Area #4 Sample # 1 (280-179304-5), Area #5 Sample # 1 (280-179304-10), Area #5 Sample # 2 (280-179304-11), Area #5 Sample # 3 (280-179304-12), Area #5 Sample # 4 (280-179304-13), Area #5 Sample # 5 (280-179304-14), Area #5 Sample # 6 (280-179304-15), Area #5 Sample # 7 (280-179304-16) and Area #5 Sample # 8 (280-179304-17) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 08/01/2023 and 08/02/2023.

1,2-Dichloroethane-d4 (Surr) failed the surrogate recovery criteria high for Area #5 Sample # 4 (280-179304-13). Evidence of matrix interference is suspected.

Internal standard responses were outside of acceptance limits for the following sample: Area #5 Sample # 4 (280-179304-13). The sample was re-extracted and re-run with similar results. The matrix of the sample may have interfered with ISTD and surrogates recoveries. Therefore, the data have been reported.

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

GASOLINE RANGE ORGANICS (GRO)

Samples Area #1 Sample # 1 (280-179304-1), Area #1 Sample # 2 (280-179304-2), Area #2 Sample # 1 (280-179304-3), Area #3 Sample

Job ID: 280-179304-1

Page 71 of 112

Job ID: 280-179304-1 (Continued)

Laboratory: Eurofins Denver (Continued)

1 (280-179304-4), Area #4 Sample # 1 (280-179304-5), Area #5 Sample # 1 (280-179304-10), Area #5 Sample # 2 (280-179304-11), Area #5 Sample # 3 (280-179304-12), Area #5 Sample # 4 (280-179304-13), Area #5 Sample # 5 (280-179304-14), Area #5 Sample # 6 (280-179304-15), Area #5 Sample # 7 (280-179304-16) and Area #5 Sample # 8 (280-179304-17) were analyzed for Gasoline Range Organics (GRO) in accordance with EPA SW-846 Method 8015C - GRO. The samples were prepared on 07/19/2023 and analyzed on 07/26/2023 and 07/28/2023.

Case Narrative

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

DIESEL RANGE ORGANICS

Samples Area #1 Sample # 1 (280-179304-1), Area #1 Sample # 2 (280-179304-2), Area #2 Sample # 1 (280-179304-3), Area #3 Sample # 1 (280-179304-4), Area #4 Sample # 1 (280-179304-5), Area #5 Sample # 1 (280-179304-10), Area #5 Sample # 2 (280-179304-11), Area #5 Sample # 3 (280-179304-12), Area #5 Sample # 4 (280-179304-13), Area #5 Sample # 5 (280-179304-14), Area #5 Sample # 6 (280-179304-15), Area #5 Sample # 7 (280-179304-16) and Area #5 Sample # 8 (280-179304-17) were analyzed for diesel range organics in accordance with EPA SW-846 Method 8015C - DRO. The samples were prepared on 07/25/2023 and analyzed on 07/31/2023 and 08/01/2023.

Diesel Range Organics [C10-C28] failed the recovery criteria low for the MSD of sample Area #3 Sample # 1 (280-179304-4) in batch 280-621262. Refer to the QC report for details. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Due to the matrix fully venting in the microwave, the initial volumes used for the following sample in preparation batch 280-620620 deviated from the standard procedure: Area #5 Sample # 6 (280-179304-15). To avoid further venting, the sample was ran at five grams instead of the full fifteen grams. The reporting limits (RLs) have been adjusted proportionately.

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

ANIONS (28 DAYS)

Samples Area #1 Sample # 1 (280-179304-1), Area #1 Sample # 2 (280-179304-2), Area #2 Sample # 1 (280-179304-3), Area #3 Sample # 1 (280-179304-4), Area #4 Sample # 1 (280-179304-5), Area #5 Sample # 1 (280-179304-10), Area #5 Sample # 2 (280-179304-11), Area #5 Sample # 3 (280-179304-12), Area #5 Sample # 4 (280-179304-13), Area #5 Sample # 5 (280-179304-14), Area #5 Sample # 6 (280-179304-15), Area #5 Sample # 7 (280-179304-16) and Area #5 Sample # 8 (280-179304-17) were analyzed for anions (28 days) in accordance with EPA SW-846 Method 9056A (28 Days). The samples were leached on 07/25/2023 and analyzed on 07/26/2023 and 07/27/2023.

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

PERCENT SOLIDS

Samples Area #1 Sample # 1 (280-179304-1), Area #1 Sample # 2 (280-179304-2), Area #2 Sample # 1 (280-179304-3), Area #3 Sample # 1 (280-179304-4), Area #4 Sample # 1 (280-179304-5), Area #5 Sample # 1 (280-179304-10), Area #5 Sample # 2 (280-179304-11), Area #5 Sample # 3 (280-179304-12), Area #5 Sample # 4 (280-179304-13), Area #5 Sample # 5 (280-179304-14), Area #5 Sample # 6 (280-179304-15), Area #5 Sample # 7 (280-179304-16) and Area #5 Sample # 8 (280-179304-17) were analyzed for percent solids in accordance with ASTM D2216-90. The samples were analyzed on 07/25/2023.

Percent Moisture exceeded the RPD limit for the duplicate of sample Area #5 Sample # 8 (280-179304-17). Refer to the QC report for details. Sample non-homogeneity is suspected.

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

5

Detection Summary

Client Sample ID: Area #1	Samela	4 4				E.1.0	-		00 48000
Cheft Sample ID: Area #1	Sample	¥ 1				Lab S	ar	nple ID: 2	80-179304-
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Ргер Туре
Diesel Range Organics [C10-C28]	29		7.9		mg/Kg	1	-	8015C	Total/NA
Motor Oil (C20-C38)	36		24		mg/Kg	1		8015C	Total/NA
Client Sample ID: Area #1	Sample #	# 2				Lab S	an	n <mark>ple ID:</mark> 2	80-179304-
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Ргер Туре
Diesel Range Organics [C10-C28]	46		7.8		mg/Kg	1	25	8015C	Total/NA
Motor Oil (C20-C38)	70		24		mg/Kg	1		8015C	Total/NA
Client Sample ID: Area #2	Sample #	¢1				Lab S	an	nple ID: 2	80-179304-
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Ргер Туре
Diesel Range Organics [C10-C28]	11		7.8		mg/Kg	1	-	8015C	Total/NA
Motor Oil (C20-C38)	33		23		mg/Kg	1		8015C	Total/NA
Client Sample ID: Area #3	Sample #	£1				Lab S	an	ple ID: 2	80-179304-
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Ргер Туре
Diesel Range Organics [C10-C28]	34	F1	7.7		mg/Kg	1	÷	8015C	Total/NA
Motor Oil (C20-C38)	97		23		mg/Kg	1		8015C	Total/NA
Client Sample ID: Area #4	Sample #	^E 1				Lab Sa	an	ple ID: 2	80-179304-
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	7.8		7.7		mg/Kg	1	-	8015C	Total/NA
Client Sample ID: Area #5	Sample #	1				Lab Sa	np	ole ID: 28	0-179304-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Ргер Туре
Diesel Range Organics [C10-C28]	25		7.6		mg/Kg	1		8015C	Total/NA
Motor Oil (C20-C38)	67		23		mg/Kg	1		8015C	Total/NA
lient Sample ID: Area #5	Sample #	2				Lab Sa	m	ole ID: 28	0-179304-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Ргер Туре
Diesel Range Organics [C10-C28]	47		7.9		mg/Kg			8015C	Total/NA
Motor Oil (C20-C38)	79		24		mg/Kg	1		8015C	Total/NA
lient Sample ID: Area #5	Sample #	3				Lab Sar	np	ole ID: 28	0-179304-12
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Ргер Туре
Diesel Range Organics [C10-C28]	37		7.9		mg/Kg	1		8015C	Total/NA
Motor Oil (C20-C38)	79		24		mg/Kg	1		8015C	Total/NA
lient Sample ID: Area #5	Sample #	4				Lab Sar	np	le ID: 280)-179304-13
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Ргер Туре
Diesel Range Organics [C10-C28]	36		7.8		mg/Kg	1	-	8015C	Total/NA
Motor Oil (C20-C38)	74		24		mg/Kg	1		8015C	Total/NA
lient Sample ID: Area #5	Sample #	5				Lab Sar	np	le ID: 280)-179304-14
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Ргер Туре
Diesel Range Organics [C10-C28]	11		7.9		mg/Kg	1	-	8015C	Total/NA
Motor Oil (C20-C38)	39		24		mg/Kg	1		8015C	Total/NA
					00				

This Detection Summary does not include radiochemical test results.

Eurofins Denver
Detection Summary

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

Job ID: 280-179304-1

Client Sample ID: Area #5	Sample #	ŧ 6				Lab Sam	ple ID: 28	0-179304-15
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Ргер Туре
Diesel Range Organics [C10-C28]	63		24		mg/Kg	1	8015C	Total/NA
Motor Oil (C20-C38)	88		72		mg/Kg	1	8015C	Total/NA
Client Sample ID: Area #5	Sample #	7				Lab Sam	ple ID: 28	0-179304-16
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Gasoline Range Organics	4.3	20	2.2		mg/Kg		8015C	Total/NA
(GRO)-C6-C10								
Diesel Range Organics [C10-C28]	34		7.8		mg/Kg	1	8015C	Total/NA
Motor Oil (C20-C38)	77		24		mg/Kg	1	8015C	Total/NA
Client Sample ID: Area #5	Sample #	8				Lab Sam	ole ID: 28	0-179304-17
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Diesel Range Organics [C10-C28]	60		7.8		mg/Kg	1	8015C	Total/NA
Motor Oil (C20-C38)	85		23		mg/Kg	1	8015C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Method Summary

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

Job ID: 280-179304-1

lethod	Method Description	Protocol	Laboratory
3260B	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	EET DEN
015C	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	EET DEN
056A	Anions, Ion Chromatography	SW846	EET DEN
loisture	Percent Moisture	EPA	EET DEN
546	Microwave Extraction	SW846	EET DEN
030B	Purge and Trap	SW846	EET DEN
035	Closed System Purge and Trap	SW846	EET DEN
l Leach	Deionized Water Leaching Procedure	ASTM	EET DEN

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-179304-1	Area #1 Sample # 1	Solid	07/19/23 13:00	07/20/23 09:58
280-179304-2	Area #1 Sample # 2	Solid	07/19/23 13:10	07/20/23 09:58
280-179304-3	Area #2 Sample # 1	Solid	07/19/23 13:20	07/20/23 09:58
280-179304-4	Area #3 Sample # 1	Solid	07/19/23 13:25	07/20/23 09:58
280-179304-5	Area #4 Sample # 1	Solid	07/19/23 13:30	07/20/23 09:58
280-179304-10	Area #5 Sample # 1	Solid	07/19/23 15:00	07/20/23 09:58
280-179304-11	Area #5 Sample # 2	Solid	07/19/23 15:10	07/20/23 09:58
280-179304-12	Area #5 Sample # 3	Solid	07/19/23 15:20	07/20/23 09:58
280-179304-13	Area #5 Sample # 4	Solid	07/19/23 15:30	07/20/23 09:58
280-179304-14	Area #5 Sample # 5	Solid	07/19/23 15:40	07/20/23 09:58
280-179304-15	Area #5 Sample # 6	Solid	07/19/23 15:50	07/20/23 09:58
280-179304-16	Area #5 Sample # 7	Solid	07/19/23 16:00	07/20/23 09:58
280-179304-17	Area #5 Sample # 8	Solid	07/19/23 16:10	07/20/23 09:58

Job ID: 280-179304-1

3

Job ID: 280-179304-1

Client Sample Results

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: Area #1 San Date Collected: 07/19/23 13:00 Date Received: 07/20/23 09:58	ס'						Lab Sam	ple ID: 280-17 Matrix	79304-1 c: Solid
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 20:10	1
Ethylbenzene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 20:10	1
Toluene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 20:10	1
m-Xylene & p-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 20:10	1
o-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 20:10	1
Xylenes, Total	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 20:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	123		58-140				08/01/23 10:42	08/01/23 20:10	1
Toluene-d8 (Surr)	99		80 - 126				08/01/23 10:42	08/01/23 20:10	1
4-Bromofluorobenzene (Surr)	111		76 - 127					08/01/23 20:10	1
Dibromofluoromethane (Surr)	109		75-121					08/01/23 20:10	1
Client Sample ID: Area #1 San Date Collected: 07/19/23 13:10)						Lab Sam	ple ID: 280-17 Matrix	′9304-2 :: Solid
Date Received: 07/20/23 09:58									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 16:02	1
Ethylbenzene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 16:02	1
Toluene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 16:02	1
m-Xylene & p-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 16:02	1
o-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 16:02	1
Xylenes, Total	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 16:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		58-140				08/01/23 10:42	08/01/23 16:02	1
Toluene-d8 (Surr)	99		80_126				08/01/23 10:42	08/01/23 16:02	1
1-Bromofluorobenzene (Surr)	113		76 <i>-</i> 127				08/01/23 10:42	08/01/23 16:02	1
Dibromofluoromethane (Surr)	109		75-121				08/01/23 10:42	08/01/23 16:02	1
Client Sample ID: Area #2 Sam							Lab Sam	ole ID: 280-17	9304-3
Date Collected: 07/19/23 13:20 Date Received: 07/20/23 09:58								Matrix	: Solid
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0050		mg/Kg		08/01/23 10:42		1
Ethylbenzene	ND		0.0050		mg/Kg		08/01/23 10:42		í.
oluene	ND		0.0050		mg/Kg		08/01/23 10:42		1
n-Xylene & p-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42		÷.
-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42		л. Ж
ylenes, Total	ND		0.0050		mg/Kg		08/01/23 10:42		1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
,2-Dichloroethane-d4 (Surr)	112		58 - 140				08/01/23 10:42		1
·····									,

08/01/23 10:42 08/01/23 16:23

08/01/23 10:42 08/01/23 16:23

08/01/23 10:42 08/01/23 16:23

Toluene-d8 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

80-126

76-127

75-121

100

110

106

1

1

Client Sample Results

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Date Collected: 07/19/23 1 Date Received: 07/20/23 09	9:58	Qualifier			11 14	-	Desa (x: Solic
Analyte Benzene	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			0.0050		mg/Kg			08/01/23 16:44	1
Ethylbenzene	ND		0.0050		mg/Kg			08/01/23 16:44	6
Toluene	ND		0.0050		mg/Kg			08/01/23 16:44	8
m-Xylene & p-Xylene	ND		0.0025		mg/Kg			08/01/23 16:44	6
o-Xylene	ND		0.0025		mg/Kg			08/01/23 16:44	
Xylenes, Total	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 16:44	8
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	118		58-140				08/01/23 10:42	08/01/23 16:44	
Toluene-d8 (Surr)	100		80_126				08/01/23 10:42	08/01/23 16:44	
4-Bromofluorobenzene (Surr)	112		76 <u>-</u> 127				08/01/23 10:42	08/01/23 16:44	1
Dibromofluoromethane (Surr)	108		75-121				08/01/23 10:42	08/01/23 16:44	î
Client Sample ID: Area #4 Date Collected: 07/19/23 13 Date Received: 07/20/23 09	3:30						Lab Sam	ple ID: 280-17 Matrix	79304-: c: Solie
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0051		mg/Kg		08/01/23 10:42	08/01/23 17:04	
Ethylbenzene	ND		0.0051		mg/Kg		08/01/23 10:42	08/01/23 17:04	1
Toluene	ND		0.0051		mg/Kg		08/01/23 10:42	08/01/23 17:04	1
n-Xylene & p-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 17:04	
o-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 17:04	1
Kylenes, Total	ND		0.0051		mg/Kg		08/01/23 10:42	08/01/23 17:04	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	120		58 - 140				08/01/23 10:42	08/01/23 17:04	1
Toluene-d8 (Surr)	98		80-126				08/01/23 10:42	08/01/23 17:04	1
4-Bromofluorobenzene (Surr)	110		76 ₋ 127				08/01/23 10:42	08/01/23 17:04	1
Dibromofluoromethane (Surr)	110		75 ₋ 121				08/01/23 10:42	08/01/23 17:04	1
Client Sample ID: Area #5 \$ Date Collected: 07/19/23 15 Date Received: 07/20/23 09	5:00						Lab Samp	le ID: 280-179 Matrix	304-10 : Solic
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0049		mg/Kg		08/01/23 10:42	08/01/23 17:25	1
thylbenzene	ND		0.0049		mg/Kg		08/01/23 10:42	08/01/23 17:25	1
oluene	ND		0.0049		mg/Kg		08/01/23 10:42	08/01/23 17:25	1
n-Xylene & p-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 17:25	1
-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 17:25	1
ylenes, Total	ND		0.0049		mg/Kg		08/01/23 10:42	08/01/23 17:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
,2-Dichloroethane-d4 (Surr)	113	3 	58 - 140				08/01/23 10:42		1
oluene-d8 (Surr)	99		80 - 126				08/01/23 10:42		A
-Bromofluorobenzene (Surr)	109		76 - 127				08/01/23 10:42		4
Dibromofluoromethane (Surr)	109		75 101				00/04/00 40:42	00/01/00 17.20	

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08/01/23 10:42 08/01/23 17:25

108

Dibromofluoromethane (Surr)

75-121

1

Job ID: 280-179304-1

Client Sample Results

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: Area #5 Date Collected: 07/19/23 19 Date Received: 07/20/23 09	5:10						Lab Samp	ole ID: 280-17 Matrix	9304-1 x: Solie
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	ND		0.0051		mg/Kg		08/01/23 10:42		Dirta
Ethylbenzene	ND		0.0051		mg/Kg			08/01/23 17:46	
Toluene	ND		0.0051		mg/Kg			08/01/23 17:40	
m-Xylene & p-Xylene	ND		0.0025		mg/Kg			08/01/23 17:46	
o-Xylene	ND		0.0025		mg/Kg mg/Kg			08/01/23 17:46	
Xylenes, Total	ND		0.0051		mg/Kg			08/01/23 17:46	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	127		58 - 140					08/01/23 17:46	a
Toluene-d8 (Surr)	98		80 - 126					08/01/23 17:46	2
4-Bromofluorobenzene (Surr)	110		76_127					08/01/23 17:46	i I
Dibromofluoromethane (Surr)	110		75 - 121					08/01/23 17:46	
Client Sample ID: Area #5 5 Date Collected: 07/19/23 15 Date Received: 07/20/23 09	:20						Lab Samp	le ID: 280-179 Matrix)304-1 (: Solie
Analyte		Qualifier	RL	MDL	Unit	D	Propared	Analyzad	Dil Ea
Benzene	- ND	Quanner	0.0050	WDL	mg/Kg		Prepared	Analyzed 08/01/23 18:06	Dil Fa
thylbenzene	ND		0.0050		mg/Kg			08/01/23 18:06	
Toluene	ND		0.0050		mg/Kg			08/01/23 18:06	
n-Xylene & p-Xylene	ND		0.0025		mg/Kg			08/01/23 18:06	
-Xylene	ND		0.0025		mg/Kg				
(ylenes, Total	ND		0.0020		mg/Kg			08/01/23 18:06 08/01/23 18:06	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
,2-Dichloroethane-d4 (Surr)			58 - 140					08/01/23 18:06	Dirra
oluene-d8 (Surr)	100		80_126					08/01/23 18:06	
-Bromofluorobenzene (Surr)	115		76_127					08/01/23 18:06	
Dibromofluoromethane (Surr)	105		75_121					08/01/23 18:06	
lient Sample ID: Area #5 S							Lab Samp	le ID: 280-179	304-1:
Date Collected: 07/19/23 15 Date Received: 07/20/23 09:								Matrix	
nalyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
enzene	ND	*3	0.0051		mg/Kg	_	08/02/23 09:50	08/02/23 14:05	Dirid
thylbenzene	ND	-	0.0051		mg/Kg		08/02/23 09:50		2
bluene	ND		0.0051		mg/Kg		08/02/23 09:50		33
n-Xylene & p-Xylene	ND		0.0025		mg/Kg		08/02/23 09:50		3
-Xylene	ND		0.0025		mg/Kg		08/02/23 09:50		3
ylenes, Total	ND	5	0.0025		mg/Kg		08/02/23 09:50		10 17
urrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
,2-Dichloroethane-d4 (Surr)		*3 S1+	58 - 140				08/02/23 09:50		DITA
	, 15		00-710				00/02/20 03.00	00/02/20 14.00	19

Toluene-d8 (Surr)

1

1

1

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08/02/23 09:50 08/02/23 14:05

08/02/23 09:50 08/02/23 14:05

08/02/23 09:50 08/02/23 14:05

80 - 126

76-127

75-121

96 *3

105 *3

113 *3

> 12 13

Client Sample Results

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: Area #5 3 Date Collected: 07/19/23 15	5:40						Lab Samp	le ID: 280-17 Matri	9304-1 x: Soli
Date Received: 07/20/23 09									
Analyte		Qualifier	RL	MDL	Unit	D		Analyzed	Dil Fa
Benzene	ND		0.0050		mg/Kg		08/01/23 10:42		
Ethylbenzene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 18:48	
Toluene	ND		0.0050		mg/Kg			08/01/23 18:48	
m-Xylene & p-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 18:48	
o-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 18:48	
Xylenes, Total	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 18:48	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	121		58-140				08/01/23 10:42	08/01/23 18:48	
Toluene-d8 (Surr)	97		80 - 126				08/01/23 10:42	08/01/23 18:48	
4-Bromofluorobenzene (Surr)	110		76-127				08/01/23 10:42	08/01/23 18:48	
Dibromofluoromethane (Surr)	110		75-121				08/01/23 10:42	08/01/23 18:48	
Client Sample ID: Area #5 S Date Collected: 07/19/23 15							Lab Samp	le ID: 280-179 Matrix)304-1 c: Soli
Date Received: 07/20/23 09	:58								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	ND		0.0052		mg/Kg			08/01/23 19:08	
thylbenzene	ND		0.0052		mg/Kg			08/01/23 19:08	
oluene	ND		0.0052		mg/Kg			08/01/23 19:08	
n-Xylene & p-Xylene	ND		0.0026		mg/Kg			08/01/23 19:08	
-Xylene	ND		0.0026		mg/Kg			08/01/23 19:08	
(ylenes, Total	ND		0.0052		mg/Kg			08/01/23 19:08	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
,2-Dichloroethane-d4 (Surr)	128		58-140					08/01/23 19:08	-
oluene-d8 (Surr)	99		80-126				08/01/23 10:42	08/01/23 19:08	
-Bromofluorobenzene (Surr)	108		76 ₋ 127				08/01/23 10:42	08/01/23 19:08	
)ibromofluoromethane (Surr)	112		75 ₋ 121				08/01/23 10:42	08/01/23 19:08	
Client Sample ID: Area #5 S Date Collected: 07/19/23 16 Date Received: 07/20/23 09	:00						Lab Samp	le ID: 280-179 Matrix	
nalyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
enzene	ND		0.0049		mg/Kg		08/01/23 10:42	08/01/23 19:29	
thylbenzene	ND		0.0049		mg/Kg		08/01/23 10:42	08/01/23 19:29	
oluene	ND		0.0049		mg/Kg		08/01/23 10:42	08/01/23 19:29	
n-Xylene & p-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42		
-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42		
ylenes, Total	ND		0.0049		mg/Kg		08/01/23 10:42		
urrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
2-Dichloroethane-d4 (Surr)	130		58 - 140				08/01/23 10:42		-
			00 100						
oluene-dB (Surr)	96		80_126				08/01/23 10:42	08/01/23 19:29	
oluene-dB (Surr) -Bromofluorobenzene (Surr)	96 111		80 - 126 76 - 127				08/01/23 10:42		

Job ID: 280-179304-1

Client Sample Results

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: Area #5 Date Collected: 07/19/23 1							Lab Samp	le ID: 280-179 Matrix)304-17 (: Solid
Date Received: 07/20/23 09	9:58								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 19:49	1
Ethylbenzene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 19:49	1
Toluene	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 19:49	1
m-Xylene & p-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 19:49	1
o-Xylene	ND		0.0025		mg/Kg		08/01/23 10:42	08/01/23 19:49	1
Xylenes, Total	ND		0.0050		mg/Kg		08/01/23 10:42	08/01/23 19:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	129		58-140				08/01/23 10:42	08/01/23 19:49	1
Toluene-d8 (Surr)	97		80-126				08/01/23 10:42	08/01/23 19:49	1
4-Bromofluorobenzene (Surr)	108		76-127				08/01/23 10:42	08/01/23 19:49	7
Dibromofluoromethane (Surr)	107		75-121				08/01/23 10:42	08/01/23 19:49	7

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Client Sample ID: Area #1 S Date Collected: 07/19/23 13:							Lab Sam	ple ID: 280-17 Matrix	79304-1 k: Solid
Date Received: 07/20/23 09:	58								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		1.8		mg/Kg		· · · · · · · · · · · · · · · · · · ·	07/26/23 02:40	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
a,a,a-Trifluorotoluene	89	<u> </u>	77_123					07/26/23 02:40	Dirta
Client Sample ID: Area #1 S Date Collected: 07/19/23 13: Date Received: 07/20/23 09:	10						Lab Sam	ple ID: 280-17 Matrix	/9304-2 (: Solid
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		2.7		mg/Kg		07/19/23 13:10		1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	89		77 - 123				07/19/23 13:10	07/26/23 03:04	1
Client Sample ID: Area #2 Sa Date Collected: 07/19/23 13: Date Received: 07/20/23 09:;	20						Lab Sam	ple ID: 280-17 Matrix	′9304-3 (: Solid
Analyte		Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		2.2		mg/Kg		07/19/23 13:20	07/26/23 03:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a, a, a-Trifluorotoluene	89		77 - 123				07/19/23 13:20	07/26/23 03:28	1
Client Sample ID: Area #3 Sa Date Collected: 07/19/23 13:2 Date Received: 07/20/23 09:5	25						Lab Samı	ple ID: 280-17 Matrix	9304-4 :: Solid
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		2.2		mg/Kg	_	07/19/23 13:25	07/26/23 03:52	1

Client Sample Results

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

Job ID: 280-179304-1

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range	
Organics) (Continued)	

Surrogate									
	%Recovery	-	Limits				Prepared	Analyzed	Dil Fac
a, a, a-Trifluorotoluene	89)	77 - 123				07/19/23 13:25	07/26/23 03:52	1
Client Sample ID: Area #4 Sa Date Collected: 07/19/23 13::	30						Lab Sam	ple ID: 280-1 Matri	79304-5 ix: Solid
Date Received: 07/20/23 09:5	-								
Analyte		Qualifier	RL	MDL	Unit	<u>D</u>		Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		2.0		mg/Kg		07/19/23 13:30	07/28/23 02:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	90		77 - 123					07/28/23 02:01	1
Client Sample ID: Area #5 Sa Date Collected: 07/19/23 15:0 Date Received: 07/20/23 09:5	0						Lab Samp	le ID: 280-17 Matri	9304-10 x: Solid
Analyte	-	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		2.1	1	mg/Kg			07/28/23 02:25	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	88		77 - 123					07/28/23 02:25	
Date Collected: 07/19/23 15:1 Date Received: 07/20/23 09:5 Analyte Gasoline Range Organics	8 Result	Qualifier	RL	MDL	Unit	D	Prepared	le ID: 280-17 Matri: Analyzed	x: Solid
	ND		2,1		mg/Kg		07/19/23 15:10	07/28/23 02:49	1
(GRO)-C6-C10	ND		2.1		mg/Kg		07/19/23 15:10	07/28/23 02:49	
	ND %Recovery	Qualifier	2.1		mg/Kg		07/19/23 15:10 Prepared	07/28/23 02:49 Analyzed	
(GRO)-C6-C10		Qualifier			mg/Kg		Prepared		1 Dil Fac
(GRO)-C6-C10 Surrogate	%Recovery 90 mple # 3 0	Qualifier	Limits		mg/Kg		Prepared 07/19/23 15:10	Analyzed 07/28/23 02:49 le ID: 280-175	1 Dil Fac 1
(GRO)-C6-C10 Surrogate a,a,a-Trifluorotoluene Client Sample ID: Area #5 Sa Date Collected: 07/19/23 15:2 Date Received: 07/20/23 09:5 Analyte	%Recovery 90 mple # 3 0 8 Result	Qualifier Qualifier	Limits	MDL	mg/Kg Unit	D	Prepared 07/19/23 15:10	Analyzed 07/28/23 02:49 le ID: 280-175	1 Dil Fac 1 9304-12
(GRO)-C6-C10 <u>Surrogate</u> a,a,a-Trifluorotoluene Client Sample ID: Area #5 Sa Date Collected: 07/19/23 15:2 Date Received: 07/20/23 09:5	%Recovery 90 mple # 3 0 8	9	Limits 77 - 123	MDL		D	<i>Prepared</i> 07/19/23 15:10 Lab Samp	Analyzed 07/28/23 02:49 le ID: 280-179 Matrix	1 Dil Fac 1 9304-12 x: Solid
(GRO)-C6-C10 Surrogate a,a,a-Trifluorotoluene Client Sample ID: Area #5 Sa Date Collected: 07/19/23 15:2 Date Received: 07/20/23 09:5 Analyte Gasoline Range Organics	%Recovery 90 mple # 3 0 8 Result	Qualifier	Limits 77 - 123 RL	MDL	Unit	<u>D</u>	Prepared 07/19/23 15:10 Lab Samp Prepared 07/19/23 15:20	Analyzed 07/28/23 02:49 le ID: 280-179 Matrix Analyzed 07/28/23 03:13	1 <i>Dil Fac</i> 1 9304-12 x: Solid <u>Dil Fac</u> 1
(GRO)-C6-C10 Surrogate a,a,a-Trifluorotoluene Client Sample ID: Area #5 Sa Date Collected: 07/19/23 15:2 Date Received: 07/20/23 09:5 Analyte Gasoline Range Organics (GRO)-C6-C10	%Recovery 90 mple # 3 0 8 Result ND	Qualifier	Limits 77 - 123 RL 2.0	MDL	Unit	D	Prepared 07/19/23 15:10 Lab Samp Prepared 07/19/23 15:20 Prepared	Analyzed 07/28/23 02:49 le ID: 280-179 Matrix Analyzed	1 Dil Fac 1 9304-12 x: Solid
(GRO)-C6-C10 Surrogate a,a,a-Trifluorotoluene Client Sample ID: Area #5 Sa Date Collected: 07/19/23 15:2 Date Received: 07/20/23 09:5 Analyte Gasoline Range Organics (GRO)-C6-C10 Surrogate	%Recovery 90 90 90 mple # 3 0 8 Result ND %Recovery 89 89 mple # 4 0	Qualifier	<u>Limits</u> 77 - 123 RL 2.0 Limits	MDL	Unit	<u>D</u>	Prepared 07/19/23 15:10 Lab Samp Prepared 07/19/23 15:20 Prepared 07/19/23 15:20	Analyzed 07/28/23 02:49 le ID: 280-179 Matrix Analyzed 07/28/23 03:13 Analyzed 07/28/23 03:13 le ID: 280-179	1 <i>Dil Fac</i> 1 9304-12 x: Solid Dil Fac 1 <i>Dil Fac</i> 1
(GRO)-C6-C10 <u>Surrogate</u> a,a,a-Trifluorotoluene Client Sample ID: Area #5 Sa Date Collected: 07/19/23 15:2 Date Received: 07/20/23 09:5 <u>Analyte</u> Gasoline Range Organics (GRO)-C6-C10 <u>Surrogate</u> a,a,a-Trifluorotoluene Client Sample ID: Area #5 Sat Date Collected: 07/19/23 15:3	%Recovery 90 90 90 mple # 3 0 8 Result ND %Recovery 89 89 mple # 4 0 8 8	Qualifier	<u>Limits</u> 77 - 123 RL 2.0 Limits	MDL	Unit mg/Kg	D	Prepared 07/19/23 15:10 Lab Samp Prepared 07/19/23 15:20 Prepared 07/19/23 15:20	Analyzed 07/28/23 02:49 le ID: 280-179 Matrix Analyzed 07/28/23 03:13 Analyzed 07/28/23 03:13 le ID: 280-179	1 <i>Dil Fac</i> 1 9304-12 x: Solid <u>Dil Fac</u> 1 <i>Dil Fac</i> 1 9304-13
(GRO)-C6-C10 Surrogate a,a,a-Trifluorotoluene Client Sample ID: Area #5 Sa Date Collected: 07/19/23 15:2 Date Received: 07/20/23 09:5 Analyte Gasoline Range Organics (GRO)-C6-C10 Surrogate a,a,a-Trifluorotoluene Client Sample ID: Area #5 Sau Date Collected: 07/19/23 15:3 Date Received: 07/20/23 09:55	%Recovery 90 90 90 mple # 3 0 8 Result ND %Recovery 89 89 mple # 4 0 8 8	Qualifier Qualifier	<u>Limits</u> 77 - 123 <u>RL</u> 2.0 <u>Limits</u> 77 - 123		Unit mg/Kg		Prepared 07/19/23 15:10 Lab Samp Prepared 07/19/23 15:20 Prepared 07/19/23 15:20 Lab Sample 07/19/23 15:20 Lab Sample	Analyzed 07/28/23 02:49 le ID: 280-179 Matriz Analyzed 07/28/23 03:13 Analyzed 07/28/23 03:13 le ID: 280-179 Matriz Analyzed	1 <i>Dil Fac</i> 1 9304-12 x: Solid Dil Fac 1 <i>Dil Fac</i> 1 9304-13 x: Solid
(GRO)-C6-C10 Surrogate a,a,a-Trifluorotoluene Client Sample ID: Area #5 Sa Date Collected: 07/19/23 15:2 Date Received: 07/20/23 09:5 Analyte Gasoline Range Organics (GRO)-C6-C10 Surrogate a,a,a-Trifluorotoluene Client Sample ID: Area #5 Sau Date Collected: 07/19/23 15:3 Date Received: 07/20/23 09:5 Analyte Gasoline Range Organics	%Recovery 90 90 90 mple # 3 0 8 Result ND %Recovery 89 89 mple # 4 0 8 Result	Qualifier Qualifier Qualifier	<u>Limits</u> 77 - 123 <u>RL</u> 2.0 <u>Limits</u> 77 - 123		Unit mg/Kg Unit		Prepared 07/19/23 15:10 Lab Samp Prepared 07/19/23 15:20 Prepared 07/19/23 15:20 Lab Sample Prepared 07/19/23 15:20 Prepared 07/19/23 Prepared	Analyzed 07/28/23 02:49 le ID: 280-179 Matriz Analyzed 07/28/23 03:13 Analyzed 07/28/23 03:13 le ID: 280-179 Matriz Analyzed	1 <i>Dil Fac</i> 7 9304-12 x: Solid <u>Dil Fac</u> 7 9304-13 x: Solid <u>Dil Fac</u>

Client Sample Results

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

Job ID: 280-179304-1

Client Sample ID: Area #5 Sa Date Collected: 07/19/23 15:4 Date Received: 07/20/23 09:5	0						Lab Samp	le ID: 280-17 Matri	9304-14 ix: Solic
Analyte	•	Qualifier	RL	МО	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	ND		2.2		mg/Kg			07/28/23 04:00	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
a,a,a-Trifluorotoluene	90		77 - 123					07/28/23 04:00	
Client Sample ID: Area #5 San Date Collected: 07/19/23 15:5 Date Received: 07/20/23 09:58	ס						Lab Samp	le ID: 280-17 Matri	9304-1 x: Soli
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	ND		1.9		mg/Kg		07/19/23 15:50	07/28/23 04:24	-
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
a,a,a-Trifluorotoluene	90		77 - 123					07/28/23 04:24	
		Qualifier	PI	MDI	Unit	P	Proposed		
Date Received: 07/20/23 09:58 Analyte Gasoline Range Organics (GRO)-C6-C10		Qualifier	RL	MDL	Unit mg/Kg	D	Prepared 07/19/23 16:00	Matri Analyzed 07/28/23 07:56	
Analyte Gasoline Range Organics (GRO)-C6-C10 Surrogate	Result			MDL		D		Analyzed	Dil Fa
Analyte Gasoline Range Organics	Result 4.3		2.2	MDL		D	07/19/23 16:00 Prepared	Analyzed 07/28/23 07:56	Dil Fa Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Surrogate a,a,a-Trifluorotoluene Client Sample ID: Area #5 Sar Date Collected: 07/19/23 16:1(Result 4.3 %Recovery 91 mple # 8		2.2 Limits	MDL		<u>D</u>	07/19/23 16:00 Prepared 07/19/23 16:00	Analyzed 07/28/23 07:56 Analyzed 07/28/23 07:56 Ie ID: 280-179	Dil Fa Dil Fa 9304-1
Analyte Gasoline Range Organics (GRO)-C6-C10 Surrogate	Result 4.3 %Recovery 91 nple # 8		2.2 Limits	MDL	mg/Kg	<u>D</u>	07/19/23 16:00 Prepared 07/19/23 16:00	Analyzed 07/28/23 07:56 Analyzed 07/28/23 07:56 Ie ID: 280-179	Dil Fa Dil Fa 9304-1 x: Solic
Analyte Gasoline Range Organics (GRO)-C6-C10 Surrogate a, a, a-Trifluorotoluene Client Sample ID: Area #5 Sar Date Collected: 07/19/23 16:10 Date Received: 07/20/23 09:58 Analyte Gasoline Range Organics	Result 4.3 %Recovery 91 nple # 8	Qualifier	2.2 Limits 77 - 123		mg/Kg		07/19/23 16:00 Prepared 07/19/23 16:00 Lab Samp	Analyzed 07/28/23 07:56 Analyzed 07/28/23 07:56 Ie ID: 280-179 Matrix Analyzed	Dil Fa Dil Fa 9304-11 x: Solic Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Surrogate a,a,a-Trifluorotoluene Client Sample ID: Area #5 Sar Date Collected: 07/19/23 16:10 Date Received: 07/20/23 09:58	Result 4.3 %Recovery 91 nple # 8 % Result	<i>Qualifier</i> Qualifier	2.2 Limits 77 - 123 RL		mg/Kg Unit		07/19/23 16:00 Prepared 07/19/23 16:00 Lab Samp Prepared	Analyzed 07/28/23 07:56 Analyzed 07/28/23 07:56 Ie ID: 280-179 Matrix Analyzed	x: Solid Dil Fa Dil Fa 9304-17 x: Solid Dil Fad
Analyte Gasoline Range Organics (GRO)-C6-C10 Surrogate a, a, a-Trifluorotoluene Client Sample ID: Area #5 Sar Date Collected: 07/19/23 16:10 Date Received: 07/20/23 09:58 Analyte Gasoline Range Organics (GRO)-C6-C10	Result 4.3 %Recovery 91 nple # 8 0 Result ND	<i>Qualifier</i> Qualifier	2.2 <u>Limits</u> 77 - 123 <u>RL</u> 2.0		mg/Kg Unit		07/19/23 16:00	Analyzed 07/28/23 07:56 Analyzed 07/28/23 07:56 Ie ID: 280-179 Matrix Analyzed 07/28/23 17:17	Dil Fa Dil Fa 9304-1 x: Soli Dil Fa Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Surrogate a, a, a-Trifluorotoluene Client Sample ID: Area #5 Sar Date Collected: 07/19/23 16:10 Date Received: 07/20/23 09:58 Analyte Gasoline Range Organics (GRO)-C6-C10 Surrogate a, a, a-Trifluorotoluene lethod: SW846 8015C - N Client Sample ID: Area #1 San Date Collected: 07/19/23 13:00	Result 4.3 %Recovery 91 nple # 8 Result ND %Recovery 89 onhaloge nple # 1	Qualifier Qualifier Qualifier	2.2 <u>Limits</u> 77 - 123 <u>RL</u> 2.0 <u>Limits</u> 77 - 123	MDL	mg/Kg Unit mg/Kg	D	07/19/23 16:00	Analyzed 07/28/23 07:56 Analyzed 07/28/23 07:56 Ie ID: 280-179 Matrix Analyzed 07/28/23 17:17 Analyzed 07/28/23 17:17 Range Org ole ID: 280-17	Dil Fa Dil Fa 9304-1 x: Soli Dil Fa Dil Fa Janics 79304-
Analyte Gasoline Range Organics (GRO)-C6-C10 Surrogate a, a, a-Trifluorotoluene Client Sample ID: Area #5 Sar Date Collected: 07/19/23 16:10 Date Received: 07/20/23 09:58 Analyte Gasoline Range Organics (GRO)-C6-C10 Surrogate a, a, a-Trifluorotoluene lethod: SW846 8015C - N Client Sample ID: Area #1 San Date Collected: 07/19/23 13:00 Date Received: 07/20/23 09:58	Result 4.3 %Recovery 91 mple # 8 Result ND %Recovery 89 onhaloge	Qualifier Qualifier Qualifier	2.2 <u>Limits</u> 77 - 123 <u>RL</u> 2.0 <u>Limits</u> 77 - 123 ganics usi	MDL	mg/Kg Unit mg/Kg	D	07/19/23 16:00	Analyzed 07/28/23 07:56 Analyzed 07/28/23 07:56 Ie ID: 280-179 Matrix Analyzed 07/28/23 17:17 Analyzed 07/28/23 17:17 Range Org ole ID: 280-17	Dil Fa Dil Fa 304-1 x: Solic Dil Fa Dil Fa anics 79304-7
Analyte Gasoline Range Organics (GRO)-C6-C10 Surrogate a, a, a-Trifluorotoluene Client Sample ID: Area #5 Sar Date Collected: 07/19/23 16:10 Date Received: 07/20/23 09:58 Analyte Gasoline Range Organics (GRO)-C6-C10 Surrogate a, a, a-Trifluorotoluene lethod: SW846 8015C - N Client Sample ID: Area #1 San Date Collected: 07/19/23 13:00 Date Received: 07/20/23 09:58 Analyte	Result 4.3 %Recovery 91 mple # 8 %Recovery 89 onhaloge mple # 1 Result	Qualifier Qualifier Qualifier	2.2 <u>Limits</u> 77 - 123 <u>RL</u> 2.0 <u>Limits</u> 77 - 123 ganics usi	MDL	Unit TFID -Ma	D odifie	07/19/23 16:00 Prepared 07/19/23 16:00 Lab Sampl Prepared 07/19/23 16:10 Prepared 07/19/23 16:10 EXAMPLE Sample Lab Sample Prepared	Analyzed 07/28/23 07:56 Analyzed 07/28/23 07:56 Ie ID: 280-179 Matrix Analyzed 07/28/23 17:17 Analyzed 07/28/23 17:17 Range Org ole ID: 280-17 Matrix	Dil Fa Dil Fa 304-11 x: Solic Dil Fa Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Surrogate a, a, a-Trifluorotoluene Client Sample ID: Area #5 Sar Date Collected: 07/19/23 16:10 Date Received: 07/20/23 09:58 Analyte Gasoline Range Organics (GRO)-C6-C10 Surrogate a, a, a-Trifluorotoluene lethod: SW846 8015C - N Client Sample ID: Area #1 San Date Collected: 07/19/23 13:00 Date Received: 07/20/23 09:58	Result 4.3 %Recovery 91 mple # 8 Result ND %Recovery 89 onhaloge	Qualifier Qualifier Qualifier	2.2 <u>Limits</u> 77 - 123 <u>RL</u> 2.0 <u>Limits</u> 77 - 123 ganics usi	MDL	Unit mg/Kg	D odifie	07/19/23 16:00 Prepared 07/19/23 16:00 Lab Sampl Prepared 07/19/23 16:10 Prepared 07/19/23 16:10 EXAMPLE Sample Lab Sample Prepared	Analyzed 07/28/23 07:56 Analyzed 07/28/23 07:56 Ie ID: 280-179 Matrix Analyzed 07/28/23 17:17 Analyzed 07/28/23 17:17 Range Org ole ID: 280-17 Matrix Analyzed 07/31/23 22:31	Dil Fa Dil Fa 9304-1 x: Soli Dil Fa Dil Fa Janics 79304- x: Solic

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
o-Terphenyl	68		49 - 115	07/25/23 11:29	07/31/23 22:31	1	

Client Sample Results

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

Job ID: 280-179304-1

Client Sample ID: Area #1 San						÷:	Lab Sam	ple ID: 280-1	
Date Collected: 07/19/23 13:10								Matri	x: Solic
Date Received: 07/20/23 09:58		A 110				_			
Analyte		Qualifier	RL	MDL	Unit	D		Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	46		7.8		mg/Kg			07/31/23 22:54	1
Motor Oil (C20-C38)	70		24		mg/Kg		07/25/23 11:29	07/31/23 22:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	71		49 - 115				07/25/23 11:29	07/31/23 22:54	1
Client Sample ID: Area #2 San							Lab Sam	ple ID: 280-1	79304-3
Date Collected: 07/19/23 13:20								Matri	x: Solic
Date Received: 07/20/23 09:58									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	11		7.8		mg/Kg		07/25/23 11:29	07/31/23 23:16	1
Motor Oil (C20-C38)	33		23		mg/Kg		07/25/23 11:29	07/31/23 23:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	79		49_115				07/25/23 11:29	07/31/23 23:16	1
Client Sample ID: Area #3 Sam							Lab Sam	ple ID: 280-17	79304-4
Date Collected: 07/19/23 13:25								Matrix	x: Solic
Date Received: 07/20/23 09:58									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	34	F1	7.7		mg/Kg		07/25/23 11:29	07/31/23 23:39	1
Motor Oil (C20-C38)	97		23		mg/Kg		07/25/23 11:29	07/31/23 23:39	1
	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
	%Recovery 61	Qualifier	Limits 49 - 115				· · · · · · · · · · · · · · · · · · ·	Analyzed 07/31/23 23:39	
o- <i>Terphenyl</i> Client Sample ID: Area #4 Sam	61	Qualifier					07/25/23 11:29		1
<i>Surrogate</i> o- <i>Terphenyl</i> Client Sample ID: Area #4 Sam Date Collected: 07/19/23 13:30	61	Qualifier					07/25/23 11:29	07/31/23 23:39 ple ID: 280-17	1 79304-5
o-Terphenyl Client Sample ID: Area #4 Sam	61	Qualifier					07/25/23 11:29	07/31/23 23:39 ple ID: 280-17	1 79304-5
o- <i>Terphenyl</i> Client Sample ID: Area #4 Sam Date Collected: 07/19/23 13:30 Date Received: 07/20/23 09:58 Analyte	61 ople # 1	Qualifier Qualifier		MDL	Unit	D	07/25/23 11:29	07/31/23 23:39 ple ID: 280-17	1 79304-5
o- <i>Terphenyl</i> Client Sample ID: Area #4 Sam Date Collected: 07/19/23 13:30 Date Received: 07/20/23 09:58 Analyte	61 ople # 1		49 - 115	MDL	Unit mg/Kg	<u>D</u>	07/25/23 11:29	07/31/23 23:39 ple ID: 280-17 Matrix	1 79304-5 c: Solid
<i>Terphenyl</i> Client Sample ID: Area #4 Sam Date Collected: 07/19/23 13:30 Date Received: 07/20/23 09:58 Inalyte Diesel Range Organics [C10-C28]	61 opie # 1 Result		49_115 RL	MDL		D	07/25/23 11:29 Lab Sam Prepared 07/25/23 11:29	07/31/23 23:39 ple ID: 280-17 Matrix Analyzed	1 79304-5 c: Solid Dil Fac
D-Terphenyl Client Sample ID: Area #4 Sam Date Collected: 07/19/23 13:30 Date Received: 07/20/23 09:58 Analyte Diesel Range Organics [C10-C28] Motor Oil (C20-C38)	61 pple # 1 Result 7.8	Qualifier	49 - 115 RL 7.7	MDL	mg/Kg	<u>D</u>	07/25/23 11:29 Lab Sam Prepared 07/25/23 11:29	07/31/23 23:39 ple ID: 280-17 Matrix Analyzed 08/01/23 01:32	1 79304-5 c: Solid <u>Dil Fac</u> 1 1
D-Terphenyl Client Sample ID: Area #4 Sam Date Collected: 07/19/23 13:30 Date Received: 07/20/23 09:58 Analyte Diesel Range Organics [C10-C28] Motor Oil (C20-C38) Surrogate	61 pple # 1 Result 7.8 ND	Qualifier	49 - 115 RL 7.7 23	MDL	mg/Kg	D	07/25/23 11:29 Lab Sam Prepared 07/25/23 11:29 07/25/23 11:29	07/31/23 23:39 ple ID: 280-17 Matrix Analyzed 08/01/23 01:32 08/01/23 01:32 Analyzed	1 79304-5 c: Solid Dil Fac 1 Dil Fac
D-Terphenyl Client Sample ID: Area #4 Sam Date Collected: 07/19/23 13:30 Date Received: 07/20/23 09:58 Analyte Diesel Range Organics [C10-C28] Motor Oil (C20-C38) Surrogate I-Terphenyl Client Sample ID: Area #5 Sam	61 pple # 1 Result 7.8 ND %Recovery 78	Qualifier	49 - 115 RL 7.7 23 <i>Limits</i>	MDL	mg/Kg	D	07/25/23 11:29 Lab Sam Prepared 07/25/23 11:29 07/25/23 11:29 Prepared 07/25/23 11:29	07/31/23 23:39 ple ID: 280-17 Matrix Analyzed 08/01/23 01:32 08/01/23 01:32 Analyzed	1 79304-5 c: Solid 1 1 Dil Fac 1 1
D-Terphenyl Client Sample ID: Area #4 Sam Date Collected: 07/19/23 13:30 Date Received: 07/20/23 09:58 Analyte Diesel Range Organics [C10-C28] Motor Oil (C20-C38) Surrogate I-Terphenyl Client Sample ID: Area #5 Sam	61 pple # 1 Result 7.8 ND %Recovery 78	Qualifier	49 - 115 RL 7.7 23 <i>Limits</i>	MDL	mg/Kg	<u>D</u>	07/25/23 11:29 Lab Sam Prepared 07/25/23 11:29 07/25/23 11:29 Prepared 07/25/23 11:29	07/31/23 23:39 ple ID: 280-17 Matrix Analyzed 08/01/23 01:32 08/01/23 01:32 Analyzed 08/01/23 01:32 le ID: 280-179	1 79304-5 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
D-Terphenyl Client Sample ID: Area #4 Sam Date Collected: 07/19/23 13:30 Date Received: 07/20/23 09:58 Analyte Diesel Range Organics [C10-C28] Motor Oil (C20-C38) Surrogate D-Terphenyl Client Sample ID: Area #5 Sam Date Collected: 07/19/23 15:00	61 pple # 1 Result 7.8 ND %Recovery 78	Qualifier	49 - 115 RL 7.7 23 <i>Limits</i>	MDL	mg/Kg	D	07/25/23 11:29 Lab Sam Prepared 07/25/23 11:29 07/25/23 11:29 Prepared 07/25/23 11:29	07/31/23 23:39 ple ID: 280-17 Matrix Analyzed 08/01/23 01:32 08/01/23 01:32 Analyzed 08/01/23 01:32 le ID: 280-179	1 79304-5 (: Solid <u>Dil Fac</u> 1 1 <i>Dil Fac</i> 7 9304-10
D-Terphenyl Client Sample ID: Area #4 Sam Date Collected: 07/19/23 13:30 Date Received: 07/20/23 09:58 Analyte Diesel Range Organics [C10-C28] Motor Oil (C20-C38) Surrogate D-Terphenyl Client Sample ID: Area #5 Sam Date Collected: 07/19/23 15:00 Date Received: 07/20/23 09:58	61 pple # 1 Result 7.8 ND %Recovery 78 ple # 1	Qualifier	49 - 115 RL 7.7 23 <i>Limits</i>	MDL	mg/Kg mg/Kg	D	07/25/23 11:29 Lab Sam Prepared 07/25/23 11:29 07/25/23 11:29 Prepared 07/25/23 11:29	07/31/23 23:39 ple ID: 280-17 Matrix Analyzed 08/01/23 01:32 08/01/23 01:32 Analyzed 08/01/23 01:32 le ID: 280-179	79304-5 c: Solid Dil Fac 1 1 Dil Fac 7
D-Terphenyl Client Sample ID: Area #4 Sam Date Collected: 07/19/23 13:30 Date Received: 07/20/23 09:58 Analyte Diesel Range Organics [C10-C28] Motor Oil (C20-C38) Surrogate D-Terphenyl Client Sample ID: Area #5 Sam Date Collected: 07/19/23 15:00 Date Received: 07/20/23 09:58 Analyte	61 pple # 1 Result 7.8 ND %Recovery 78 ple # 1	Qualifier Qualifier	49 - 115 RL 7.7 23 <i>Limits</i> 49 - 115		mg/Kg mg/Kg Unit		07/25/23 11:29 Lab Sam Prepared 07/25/23 11:29 07/25/23 11:29 Prepared 07/25/23 11:29 Lab Sampl	07/31/23 23:39 ple ID: 280-17 Matrix Analyzed 08/01/23 01:32 08/01/23 01:32 Analyzed 08/01/23 01:32 le ID: 280-179 Matrix Analyzed	79304-5 (: Solid <u>Dil Fac</u> 1 1 <i>Dil Fac</i> 7 304-10 (: Solid
D-Terphenyl Client Sample ID: Area #4 Sam Date Collected: 07/19/23 13:30 Date Received: 07/20/23 09:58 Analyte Diesel Range Organics [C10-C28] Motor Oil (C20-C38) Surrogate D-Terphenyl Client Sample ID: Area #5 Sam Date Collected: 07/19/23 15:00 Date Received: 07/20/23 09:58 Analyte Diesel Range Organics [C10-C28]	61 pple # 1 Result 7.8 ND %Recovery 78 ple # 1 Result	Qualifier Qualifier	49 - 115 RL 7.7 23 Limits 49 - 115 RL		mg/Kg mg/Kg		07/25/23 11:29 Lab Samp Prepared 07/25/23 11:29 07/25/23 11:29 Prepared 07/25/23 11:29 Lab Samp Prepared 07/25/23 11:29	07/31/23 23:39 ple ID: 280-17 Matrix Analyzed 08/01/23 01:32 08/01/23 01:32 Analyzed 08/01/23 01:32 le ID: 280-179 Matrix	79304-5 (: Solid Dil Fac 1 Dil Fac 7 0304-10 (: Solid Dil Fac
D-Terphenyl Client Sample ID: Area #4 Sam Date Collected: 07/19/23 13:30 Date Received: 07/20/23 09:58 Analyte Diesel Range Organics [C10-C28] Motor Oil (C20-C38) Surrogate D-Terphenyl Client Sample ID: Area #5 Sam Date Collected: 07/19/23 15:00 Date Received: 07/20/23 09:58 Analyte Diesel Range Organics [C10-C28] Motor Oil (C20-C38)	61 pple # 1 Result 7.8 ND %Recovery 78 ple # 1 Result 25	Qualifier Qualifier Qualifier	49 - 115 RL 7.7 23 Limits 49 - 115 RL 7.6		mg/Kg mg/Kg Unit mg/Kg		07/25/23 11:29 Lab Samp Prepared 07/25/23 11:29 07/25/23 11:29 Prepared 07/25/23 11:29 Lab Samp Prepared 07/25/23 11:29	07/31/23 23:39 ple ID: 280-17 Matrix Analyzed 08/01/23 01:32 08/01/23 01:32 Analyzed 08/01/23 01:32 le ID: 280-179 Matrix Analyzed 08/01/23 01:55 08/01/23 01:55	79304-5 (: Solid <u>Dil Fac</u> 1 1 <i>Dil Fac</i> 7 0304-10 (: Solid <u>Dil Fac</u> 1 0304-10 1 1 0304-10 1 1 1 1 1 1 1 1 1 1 1 1 1
D-Terphenyl Client Sample ID: Area #4 Sam Date Collected: 07/19/23 13:30 Date Received: 07/20/23 09:58 Analyte Diesel Range Organics [C10-C28] Motor Oil (C20-C38) Surrogate D-Terphenyl Client Sample ID: Area #5 Sam Date Collected: 07/19/23 15:00 Date Received: 07/20/23 09:58 Analyte Diesel Range Organics [C10-C28] Motor Oil (C20-C38) Surrogate	61 pple # 1 Result 7.8 ND %Recovery 78 ple # 1 Result 25 67	Qualifier Qualifier Qualifier	49 - 115 RL 7.7 23 Limits 49 - 115 RL 7.6 23		mg/Kg mg/Kg Unit mg/Kg		07/25/23 11:29 Lab Samp Prepared 07/25/23 11:29 07/25/23 11:29 Prepared 07/25/23 11:29 Lab Samp Prepared 07/25/23 11:29 07/25/23 11:29	07/31/23 23:39 ple ID: 280-17 Matrix Analyzed 08/01/23 01:32 08/01/23 01:32 Analyzed 08/01/23 01:32 le ID: 280-179 Matrix Analyzed 08/01/23 01:55 08/01/23 01:55 08/01/23 01:55	79304-5 (: Solid <u>Dil Fac</u> 1 1 <i>Dil Fac</i> 7 0304-10 (: Solid Dil Fac 1 1
D-Terphenyl Client Sample ID: Area #4 Sam Date Collected: 07/19/23 13:30 Date Received: 07/20/23 09:58 Analyte Diesel Range Organics [C10-C28] Motor Oil (C20-C38) Surrogate D-Terphenyl Client Sample ID: Area #5 Sam Date Collected: 07/19/23 15:00 Date Received: 07/20/23 09:58 Analyte Diesel Range Organics [C10-C28] Motor Oil (C20-C38) Surrogate -Terphenyl	61 pple # 1 Result 7.8 ND %Recovery 78 ple # 1 Result 25 67 %Recovery 77	Qualifier Qualifier Qualifier	49 - 115 RL 7.7 23 <i>Limits</i> 49 - 115 RL 7.6 23 <i>Limits</i>		mg/Kg mg/Kg Unit mg/Kg		07/25/23 11:29 Lab Samp Prepared 07/25/23 11:29 07/25/23 11:29 Prepared 07/25/23 11:29 Lab Samp Prepared 07/25/23 11:29 07/25/23 11:29 Prepared 07/25/23 11:29	07/31/23 23:39 ple ID: 280-17 Matrix Analyzed 08/01/23 01:32 08/01/23 01:32 Analyzed 08/01/23 01:32 le ID: 280-179 Matrix Analyzed 08/01/23 01:55 08/01/23 01:55	1 79304-5 (: Solid 1 1 0 1 1 0 1 0 1 1 0 1 1 1 1 1 1 1 1
D-Terphenyl Client Sample ID: Area #4 Sam Date Collected: 07/19/23 13:30 Date Received: 07/20/23 09:58 Analyte Diesel Range Organics [C10-C28] Motor Oil (C20-C38) Surrogate D-Terphenyl Client Sample ID: Area #5 Sam Date Collected: 07/19/23 15:00 Date Received: 07/20/23 09:58 Analyte Diesel Range Organics [C10-C28] Motor Oil (C20-C38) Surrogate -Terphenyl Client Sample ID: Area #5 Sam	61 pple # 1 Result 7.8 ND %Recovery 78 ple # 1 Result 25 67 %Recovery 77	Qualifier Qualifier Qualifier	49 - 115 RL 7.7 23 <i>Limits</i> 49 - 115 RL 7.6 23 <i>Limits</i>		mg/Kg mg/Kg Unit mg/Kg		07/25/23 11:29 Lab Samp Prepared 07/25/23 11:29 07/25/23 11:29 Prepared 07/25/23 11:29 Lab Samp Prepared 07/25/23 11:29 07/25/23 11:29 Prepared 07/25/23 11:29	07/31/23 23:39 ple ID: 280-17 Matrix Analyzed 08/01/23 01:32 08/01/23 01:32 Analyzed 08/01/23 01:32 le ID: 280-179 Matrix Analyzed 08/01/23 01:55 08/01/23 01:55 08/01/23 01:55 e ID: 280-179	1 79304-5 (: Solid 1 1 0 0 1 0 1 0 1 1 0 0 0 4 - 1 1 1 0 0 1 1 5 0 1 1 1 0 0 0 4 - 10 1 7 0 0 1 7 1 7
D-Terphenyl Client Sample ID: Area #4 Sam Date Collected: 07/19/23 13:30 Date Received: 07/20/23 09:58 Analyte Diesel Range Organics [C10-C28] Motor Oil (C20-C38) Surrogate D-Terphenyl Client Sample ID: Area #5 Sam Date Collected: 07/19/23 15:00 Date Received: 07/20/23 09:58 Analyte Diesel Range Organics [C10-C28] Motor Oil (C20-C38) Surrogate -Terphenyl Client Sample ID: Area #5 Sam Date Collected: 07/19/23 15:10	61 pple # 1 Result 7.8 ND %Recovery 78 ple # 1 Result 25 67 %Recovery 77	Qualifier Qualifier Qualifier	49 - 115 RL 7.7 23 <i>Limits</i> 49 - 115 RL 7.6 23 <i>Limits</i>		mg/Kg mg/Kg Unit mg/Kg		07/25/23 11:29 Lab Samp Prepared 07/25/23 11:29 07/25/23 11:29 Prepared 07/25/23 11:29 Lab Samp Prepared 07/25/23 11:29 07/25/23 11:29 Prepared 07/25/23 11:29	07/31/23 23:39 ple ID: 280-17 Matrix Analyzed 08/01/23 01:32 08/01/23 01:32 Analyzed 08/01/23 01:32 le ID: 280-179 Matrix Analyzed 08/01/23 01:55 08/01/23 01:55 08/01/23 01:55 e ID: 280-179	1 79304-5 (: Solid 1 1 0 0 1 0 1 0 1 1 0 1 1 1 1 1 1 1 1
o-Terphenyl Client Sample ID: Area #4 Sam Date Collected: 07/19/23 13:30 Date Received: 07/20/23 09:58 Analyte Diesel Range Organics [C10-C28] Motor Oil (C20-C38) Surrogate D-Terphenyl Client Sample ID: Area #5 Sam Date Collected: 07/19/23 15:00 Date Received: 07/20/23 09:58 Analyte Diesel Range Organics [C10-C28] Motor Oil (C20-C38) Surrogate D-Terphenyl Client Sample ID: Area #5 Sam Date Collected: 07/19/23 15:10 Client Sample ID: Area #5 Sam Date Collected: 07/19/23 15:10 Client Sample ID: Area #5 Sam	61 aple # 1 Result 7.8 ND %Recovery 78 aple # 1 Result 25 67 %Recovery 77 ple # 2	Qualifier Qualifier Qualifier	49 - 115 RL 7.7 23 Limits 49 - 115 RL 7.6 23 Limits 49 - 115	MDL	mg/Kg mg/Kg mg/Kg mg/Kg	D	07/25/23 11:29 Lab Samp Prepared 07/25/23 11:29 07/25/23 11:29 Prepared 07/25/23 11:29 Lab Sampl 07/25/23 11:29 07/25/23 11:29 07/25/23 11:29 07/25/23 11:29 Prepared 07/25/23 11:29 Lab Sampl	07/31/23 23:39 ple ID: 280-17 Matrix Analyzed 08/01/23 01:32 08/01/23 01:32 Analyzed 08/01/23 01:32 le ID: 280-179 Matrix Analyzed 08/01/23 01:55 08/01/23 01:55 08/01/23 01:55 IE ID: 280-179 Matrix	79304-5 c: Solid <u>Dil Fac</u> 1 1 <i>Dil Fac</i> 7 0304-10 c: Solid <u>Dil Fac</u> 1 1 <u>Dil Fac</u> 1 2 0304-11 c: Solid
o- <i>Terphenyl</i> Client Sample ID: Area #4 Sam Date Collected: 07/19/23 13:30	61 aple # 1 Result 7.8 ND %Recovery 78 aple # 1 Result 25 67 %Recovery 77 ple # 2	Qualifier Qualifier Qualifier	49 - 115 RL 7.7 23 <i>Limits</i> 49 - 115 RL 7.6 23 <i>Limits</i>		mg/Kg mg/Kg mg/Kg mg/Kg	D	07/25/23 11:29 Lab Samp Prepared 07/25/23 11:29 07/25/23 11:29 Prepared 07/25/23 11:29 Lab Samp Prepared 07/25/23 11:29 07/25/23 11:29 Prepared 07/25/23 11:29	07/31/23 23:39 ple ID: 280-17 Matrix Analyzed 08/01/23 01:32 08/01/23 01:32 Analyzed 08/01/23 01:32 le ID: 280-179 Matrix Analyzed 08/01/23 01:55 08/01/23 01:55 08/01/23 01:55 le ID: 280-179 Matrix Analyzed	79304-5 c: Solid Dil Fac 1 Dil Fac 7 0304-10 c: Solid Dil Fac 1 1 Dil Fac 1 1 0304-10 c: Solid

Eurofins Denver

12 13 14

Client Sample Results

Client: Wapiti Operating LLC Project/Site: Produced Water Spill Job ID: 280-179304-1

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) (Continued)

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
o-Terphenyl	74		49 - 115				07/25/23 11:29	08/01/23 02:18	
Client Sample ID: Area #5 San Date Collected: 07/19/23 15:20	ס						Lab Samp	le ID: 280-179 Matrix	
Date Received: 07/20/23 09:58		0	D I						
Analyte		Qualifier	RL	MDL	Unit	D		Analyzed	Dil Fa
Diesel Range Organics [C10-C28]	37		7.9		mg/Kg		07/25/23 11:29		
Motor Oil (C20-C38)	79		24		mg/Kg		07/25/23 11:29	08/01/23 02:40	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
o-Terphenyl	73		49 - 115				07/25/23 11:29	08/01/23 02:40	
Client Sample ID: Area #5 San Date Collected: 07/19/23 15:30 Date Received: 07/20/23 09:58	וֹי וֹי						Lab Samp	le ID: 280-179 Matrix	
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Diesel Range Organics [C10-C28]	36		7.8		mg/Kg			08/01/23 03:03	
Motor Oil (C20-C38)	74		24		mg/Kg		07/25/23 11:29		
Surrogate	%Recoverv	Qualifier	Limits				Prepared	Analyzed	Dil Fa
o-Terphenyl	81		49 - 115					08/01/23 03:03	Dirte
								.	
Client Sample ID: Area #5 Sam							Lab Samp	le ID: 280-179	
Date Collected: 07/19/23 15:40 Date Received: 07/20/23 09:58								Matrix	: Soli
		Qualifian				_	_		
Analyte Diesel Range Organics [C10-C28]		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
Motor Oil (C20-C38)	11		7.9		mg/Kg		07/25/23 11:29	08/01/23 03:26	
	39		24		mg/Kg		07/25/23 11:29	08/01/23 03:26	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
o-Terphenyl	81		49 - 115				07/25/23 11:29	08/01/23 03:26	
Client Sample ID: Area #5 Sam Date Collected: 07/19/23 15:50	•						Lab Samp	le ID: 280-179 Matrix	
Bate Bolicolea. 01/15/20 15:50								Matrix	: 301
Date Received: 07/20/23 09:58									Dil Fa
		Qualifier	RL	MDL	Unit	D	Prenared	Analyzed	
Analyte	Result	Qualifier		MDL		D	Prepared	Analyzed	
Analyte Diesel Range Organics [C10-C28]	Result 63	Qualifier	24	MDL	mg/Kg	D	07/25/23 11:29	08/01/23 04:33	
Analyte Diesel Range Organics [C10-C28] Motor Oil (C20-C38)	Result 63 88	,		MDL		D		-	
Analyte Diesel Range Organics [C10-C28] Motor Oil (C20-C38) Surrogate	Result 63 88 %Recovery	,	24 72 Limits	MDL	mg/Kg	<u>D</u>	07/25/23 11:29 07/25/23 11:29 Prepared	08/01/23 04:33 08/01/23 04:33 Analyzed	
Analyte Diesel Range Organics [C10-C28] Motor Oil (C20-C38) Surrogate	Result 63 88	,	24 72	MDL	mg/Kg	<u>D</u>	07/25/23 11:29 07/25/23 11:29	08/01/23 04:33 08/01/23 04:33 Analyzed	Dil Fa
Date Received: 07/20/23 09:58 Analyte Diesel Range Organics [C10-C28] Motor Oil (C20-C38) Surrogate p-Terphenyl Client Sample ID: Area #5 Sam	Result 63 88 %Recovery 83	,	24 72 Limits	MDL	mg/Kg	D	07/25/23 11:29 07/25/23 11:29 Prepared 07/25/23 11:29	08/01/23 04:33 08/01/23 04:33 Analyzed 08/01/23 04:33	Dil Fa
Analyte Diesel Range Organics [C10-C28] Motor Oil (C20-C38) Surrogate o-Terphenyl Client Sample ID: Area #5 Sam	Result 63 88 %Recovery 83 nple # 7	,	24 72 Limits	MDL	mg/Kg	<u>D</u>	07/25/23 11:29 07/25/23 11:29 Prepared 07/25/23 11:29	08/01/23 04:33 08/01/23 04:33 Analyzed 08/01/23 04:33 e ID: 280-179	Dil Fa 304-1
Analyte Diesel Range Organics [C10-C28] Motor Oil (C20-C38) Surrogate o-Terphenyl Client Sample ID: Area #5 Sam Date Collected: 07/19/23 16:00	Result 63 88 %Recovery 83 83 1000 # 7 7	,	24 72 Limits	MDL	mg/Kg	D	07/25/23 11:29 07/25/23 11:29 Prepared 07/25/23 11:29	08/01/23 04:33 08/01/23 04:33 Analyzed 08/01/23 04:33	Dil Fa 304-1
Analyte Diesel Range Organics [C10-C28] Motor Oil (C20-C38) Surrogate D-Terphenyl Client Sample ID: Area #5 Sam Date Collected: 07/19/23 16:00 Date Received: 07/20/23 09:58	Result 63 88 %Recovery 83 aple # 7	,	24 72 Limits	MDL	mg/Kg mg/Kg	D	07/25/23 11:29 07/25/23 11:29 Prepared 07/25/23 11:29 Lab Sampl	08/01/23 04:33 08/01/23 04:33 Analyzed 08/01/23 04:33 e ID: 280-179 Matrix	<i>Dil Fa</i> 304-1 : Soli
Analyte Diesel Range Organics [C10-C28] Motor Oil (C20-C38) Surrogate D-Terphenyl Client Sample ID: Area #5 Sam Date Collected: 07/19/23 16:00 Date Received: 07/20/23 09:58 Analyte	Result 63 88 %Recovery 83 aple # 7	Qualifier	24 72 Limits 49 - 115		mg/Kg mg/Kg Unit		07/25/23 11:29 07/25/23 11:29 Prepared 07/25/23 11:29 Lab Sampl Prepared	08/01/23 04:33 08/01/23 04:33 Analyzed 08/01/23 04:33 e ID: 280-179 Matrix Analyzed	<i>Dil Fa</i> 304-1 : Soli
Analyte Diesel Range Organics [C10-C28] Motor Oil (C20-C38) Surrogate p-Terphenyl	Result 63 88 %Recovery 83 aple # 7 Result	Qualifier	24 72 <u>Limits</u> 49 - 115 RL		mg/Kg mg/Kg		07/25/23 11:29 07/25/23 11:29 Prepared 07/25/23 11:29 Lab Sampl Prepared	08/01/23 04:33 08/01/23 04:33 Analyzed 08/01/23 04:33 e ID: 280-179 Matrix	Dil Fa 304-1 : Soli Dil Fa
Analyte Diesel Range Organics [C10-C28] Motor Oil (C20-C38) Surrogate D-Terphenyl Client Sample ID: Area #5 Sam Date Collected: 07/19/23 16:00 Date Received: 07/20/23 09:58 Analyte Diesel Range Organics [C10-C28]	Result 63 88 %Recovery 83 aple # 7 Result 34	<i>Qualifier</i> Qualifier	24 72 <u>Limits</u> 49 - 115 <u>RL</u> 7.8		mg/Kg mg/Kg Unit mg/Kg		07/25/23 11:29 07/25/23 11:29 Prepared 07/25/23 11:29 Lab Sampl Prepared 07/25/23 11:29	08/01/23 04:33 08/01/23 04:33 Analyzed 08/01/23 04:33 e ID: 280-179 Matrix Analyzed 08/01/23 04:56	<i>Dil Fa</i> 304-1

Client Sample Results

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

Job ID: 280-179304-1

Client Sample ID: Area #5 Sam Date Collected: 07/19/23 16:10 Date Received: 07/20/23 09:58							Lab Samp	le ID: 280-17 Matri	9304-1 x: Solic
Analyte		Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fa
Diesel Range Organics [C10-C28]	60	-	7.8		mg/Kg		07/25/23 11:29		
Motor Oil (C20-C38)	85		23		mg/Kg			08/01/23 05:18	
Surrogate o-Terphenyl	%Recovery	Qualifier	<i>Limits</i>				Prepared 07/25/23 11:29	Analyzed	Dil Fa
General Chemistry			49-115				01125123 11.29	08/01/23 05:18	
						_			
Client Sample ID: Area #1 Sam Date Collected: 07/19/23 13:00 Date Received: 07/20/23 09:58	· · · · · · · · · · · · · · · · · · ·						Lab Sam	ple ID: 280-1 Matri	79304- x: Solie
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Percent Moisture (EPA Moisture)	1.8		0.1		%			07/25/23 12:58	
Percent Solids (EPA Moisture)	98.2		0.1		%			07/25/23 12:58	
Client Sample ID: Area #1 Sam Date Collected: 07/19/23 13:10 Date Received: 07/20/23 09:58	ple # 2						Lab Sam	ole ID: 280-1 Matri	79304-) x: Solie
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Percent Moisture (EPA Moisture)	13.5		0.1		%	23-22		07/25/23 12:58	
Percent Solids (EPA Moisture)	86.5		0.1		%			07/25/23 12:58	
Client Sample ID: Area #2 Sam Date Collected: 07/19/23 13:20 Date Received: 07/20/23 09:58	ple # 1						Lab Sam	ole ID: 280-17 Matrix	79304-: x: Solic
Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	2.8		0.1		%			07/25/23 12:58	6
Percent Solids (EPA Moisture)	97.2		0.1		%			07/25/23 12:58	9
Client Sample ID: Area #3 Sam Date Collected: 07/19/23 13:25 Date Received: 07/20/23 09:58	ple # 1						Lab Samp	ole ID: 280-17 Matrix	79304-4 k: Solic
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Percent Moisture (EPA Moisture)	3.8		0.1		%	-		07/25/23 12:58	2
Percent Solids (EPA Moisture)	96.2		0.1		%			07/25/23 12:58	3
Client Sample ID: Area #4 Sam Date Collected: 07/19/23 13:30 Date Received: 07/20/23 09:58	ple # 1						Lab Samp	ole ID: 280-17 Matrix	/9304-9 c: Solic
Analyte		Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	2.2		0.1		%			07/25/23 12:58	
Percent Solids (EPA Moisture)	97.8		0.1		%			07/25/23 12:58	1
Client Sample ID: Area #5 Sam Date Collected: 07/19/23 15:00	ple # 1						Lab Sampl	e ID: 280-179 Matrix	304-10 c: Solic
Date Received: 07/20/23 09:58									
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Date Received: 07/20/23 09:58 Analyte Percent Moisture (EPA Moisture)	Result 3.0	Qualifier	RL	MDL	Unit %		Prepared	Analyzed 07/25/23 12:58	Dil Fac

Client Sample Results

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

General Chemistry			_						
Client Sample ID: Area #5 Samp Date Collected: 07/19/23 15:10 Date Received: 07/20/23 09:58	ole # 2						Lab Sam	ple ID: 280-17 Matri	9304-11 x: Solic
Analyte	Result	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fa
Percent Moisture (EPA Moisture)	4.8		0.1	MUL	%		Flepareu	07/25/23 12:58	Dirac
Percent Solids (EPA Moisture)	95.2		0.1		%			07/25/23 12:58	3
Client Sample ID: Area #5 Samp	ole # 3						Lab Sam	ple ID: 280-17	9304-17
Date Collected: 07/19/23 15:20								Matri	x: Solic
Date Received: 07/20/23 09:58									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Percent Moisture (EPA Moisture)	8.5		0.1		%			07/25/23 12:58	
Percent Solids (EPA Moisture)	91.5		0.1		%			07/25/23 12:58	a a
Client Sample ID: Area #5 Samp Date Collected: 07/19/23 15:30	ole # 4						Lab Samı	ple ID: 280-179 Matri	9304-13 x: Solic
Date Received: 07/20/23 09:58						_		-	
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Percent Moisture (EPA Moisture)	2.6		0.1		%			07/25/23 12:58	
Percent Solids (EPA Moisture)	97.4		0.1		%			07/25/23 12:58	
Client Sample ID: Area #5 Samp Date Collected: 07/19/23 15:40 Date Received: 07/20/23 09:58	le # 5						Lab Sam	ole ID: 280-179 Matrix	9304-14 k: Solic
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	4.4		0.1		%		Contract of the second second	07/25/23 12:58	
Percent Solids (EPA Moisture)	95.6		0.1		%			07/25/23 12:58	2
Client Sample ID: Area #5 Samp Date Collected: 07/19/23 15:50 Date Received: 07/20/23 09:58	le # 6						Lab Samp	ble ID: 280-179 Matrix	304-15 c: Solic
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	4.2	2	0.1		%			07/25/23 12:58	3
Percent Solids (EPA Moisture)	95.8		0.1		%			07/25/23 12:58	2
Client Sample ID: Area #5 Samp Date Collected: 07/19/23 16:00 Date Received: 07/20/23 09:58	le # 7						Lab Samp	ole ID: 280-179 Matrix)304-16 (: Solid
Analyte	Beault	Qualifian	ы	MDI	11-14		D		D .1
Percent Moisture (EPA Moisture)		Qualifier	RL	MDL	%	<u>D</u>	Prepared	Analyzed	Dil Fac
	3.9		0.1					07/25/23 12:58	् व
Percent Solids (EPA Moisture)	96.1		0.1		%			07/25/23 12:58	1
Client Sample ID: Area #5 Samp Date Collected: 07/19/23 16:10 Date Received: 07/20/23 09:58	le # 8						Lab Samp	ole ID: 280-179 Matrix	304-17 :: Solid
Date Received: 07/20/23 09:58 Analyte	Peoult	Qualific-	P 1	MOL	11	-	D	A	D:1 =
		Qualifier	RL	MDL	1	<u> </u>	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.3		0.1		%			07/25/23 13:01	1
Percent Solids (EPA Moisture)	94.7		0.1		%			07/25/23 13:01	11

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13 14

Client Sample Results

Job ID: 280-179304-1

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

-									
Client Sample ID: Area #1 Sample	ole # 1						Lab Sar	nple ID: 280-1	79304- 1
Date Collected: 07/19/23 13:00								Matri	ix: Solic
Date Received: 07/20/23 09:58									
Analyte		Qualifier	RL	MDL	Unit	Ð	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	ND		30		mg/Kg			07/26/23 19:42	8 8
Client Sample ID: Area #1 Samp	ole # 2						Lab San	nple ID: 280-1	79304-2
Date Collected: 07/19/23 13:10								•	x: Solic
Date Received: 07/20/23 09:58									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	ND		30		mg/Kg			07/26/23 20:50	
Client Sample ID: Area #2 Samp)le # 1						Lab San	nple ID: 280-1	70204 5
Date Collected: 07/19/23 13:20									x: Solid
Date Received: 07/20/23 09:58								Watri	x: 5010
Analyte	Pocult	Qualifier	RL	MDI	Unit		Bronorod	Amalyzad	D1
Chloride (SW846 9056A)	ND	Quaimer	30	MDL	mg/Kg	D	Prepared	Analyzed 07/26/23 21:07	Dil Fac
			30		mg/ky			07/20/23 21:07	a
Client Sample ID: Area #3 Samp	ole # 1						Lab San	nple ID: 280-1	79304-4
Date Collected: 07/19/23 13:25								-	x: Solid
Date Received: 07/20/23 09:58									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	ND		30		mg/Kg			07/26/23 21:24	1
Client Sample ID: Area #4 Samp	lo # 1						Lab Can		70004 5
Date Collected: 07/19/23 13:30							Lab San	nple ID: 280-1	
Date Received: 07/20/23 09:58								Matri	x: Solid
Analyte	D	0				-			
Chloride (SW846 9056A)	ND	Qualifier	RL 30	MDL		D	Prepared	Analyzed	Dil Fac
	ND		30		mg/Kg			07/26/23 22:15	1
Client Sample ID: Area #5 Samp	le # 1						Lab Sam	ole ID: 280-179	9304-10
Date Collected: 07/19/23 15:00									x: Solid
Date Received: 07/20/23 09:58								in a constant of the constant	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	ND		30		mg/Kg			07/26/23 22:32	1
								0.120.20 22.02	ċ
Client Sample ID: Area #5 Samp	le # 2						Lab Sam	ole ID: 280-179	9304-11
Date Collected: 07/19/23 15:10							-		x: Solid
Date Received: 07/20/23 09:58									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	ND		30		mg/Kg			07/26/23 22:49	া
lient Sample ID: Area #5 Samp	le # 3						Lab Samr	ole ID: 280-179	3304-12
Date Collected: 07/19/23 15:20									k: Solid
Date Received: 07/20/23 09:58								Mathy	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	ND		30		mg/Kg	=	rieparea	07/26/23 23:06	1
Client Sample ID: Area #5 Samp	lo # 4						1	I. ID. 000 (T	
Date Collected: 07/19/23 15:30	IC # 4						Lap Samp	le ID: 280-179	
								Matrix	c: Solid
Date Received: 07/20/23 09:58	Denself	Qualifie -				_	. .		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	ND		30		mg/Kg		-	07/26/23 23:23	1

Client Sample Results

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

Jop	ID:	280-1	79304-1

General Chemistry - Soluble

ent Sample ID: Area #5 San e Collected: 07/19/23 15:40)						Lab Sam	ple ID: 280-17 Matr	79304-14 ix: Solid
e Received: 07/20/23 09:58									
lyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ride (SW846 9056A)	ND		30		mg/Kg			07/26/23 23:40	1
ent Sample ID: Area #5 Sam	nple # 6						Lab Sami	ole ID: 280-17	9304-15
e Collected: 07/19/23 15:50									ix: Solid
e Received: 07/20/23 09:58									
lyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ride (SW846 9056A)	ND		30		mg/Kg			07/26/23 23:57	1
ent Sample ID: Area #5 Sam	nple # 7						Lab Sam	ole ID: 280-17	9304-16
e Collected: 07/19/23 16:00									ix: Solid
e Received: 07/20/23 09:58									
yte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ride (SW846 9056A)	ND		30		mg/Kg			07/27/23 00:14	1
nt Sample ID: Area #5 Sam	ple # 8						Lab Samr	ole ID: 280-17	9304-17
e Collected: 07/19/23 16:10									ix: Solid
								initia ci i	
e Received: 07/20/23 09:58		0	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
e Received: 07/20/23 09:58 _{yte}	Result	Qualifier	I V La						

Surrogate Summary

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

Job ID: 280-179304-1

Method: 8260B - Volatile Organic Compounds (GC/MS) Matrix: Solid

Matrix: Solid						Prep Type: Total/NA
			Pe	ercent Surr	ogate Recovery (Ac	ceptance Limits)
		DCA	TOL	BFB	DBFM	
Lab Sample ID	Client Sample ID	(58-140)	(80-126)	(76-127)	(75-121)	
280-179304-1	Area #1 Sample # 1	123	99	111	109	
280-179304-2	Area #1 Sample # 2	119	99	113	109	
280-179304-3	Area #2 Sample # 1	112	100	110	106	
280-179304-4	Area #3 Sample # 1	118	100	112	108	
280-179304-5	Area #4 Sample # 1	120	98	110	110	
280-179304-10	Area #5 Sample # 1	113	99	109	108	
280-179304-11	Area #5 Sample # 2	127	98	110	110	
280-179304-12	Area #5 Sample # 3	111	100	115	105	
280-179304-13	Area #5 Sample # 4	149 *3	96 *3	105 *3	113 *3	
	·	S1+				
280-179304-14	Area #5 Sample # 5	121	97	110	110	(2)
280-179304-15	Area #5 Sample # 6	128	99	108	112	
280-179304-16	Area #5 Sample # 7	130	96	111	107	
280-179304-17	Area #5 Sample # 8	129	97	108	107	
LCS 280-621428/2-A	Lab Control Sample	111	101	111	101	
LCS 280-621562/2-A	Lab Control Sample	110	102	109	101	
LCSD 280-621428/3-A	Lab Control Sample Dup	113	101	112	102	
LCSD 280-621562/3-A	Lab Control Sample Dup	108	102	11 1	102	
MB 280-621428/1-A	Method Blank	108	98	110	103	
MB 280-621562/1-A	Method Blank	113	98	109	109	
Surrogate Legend						

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		TFT1	
Lab Sample ID	Client Sample ID	(77-123)	
280-179304-1	Area #1 Sample # 1	89	
280-179304-2	Area #1 Sample # 2	89	
280-179304-3	Area #2 Sample # 1	89	
280-179304-4	Area #3 Sample # 1	89	
280-179304-5	Area #4 Sample # 1	90	
280-179304-10	Area #5 Sample # 1	88	
280-179304-11	Area #5 Sample # 2	90	
280-179304-12	Area #5 Sample # 3	89	
280-179304-13	Area #5 Sample # 4	90	
280-179304-14	Area #5 Sample # 5	90	
280-179304-15	Area #5 Sample # 6	90	
280-179304-16	Area #5 Sample # 7	91	
280-179304-17	Area #5 Sample # 8	89	
LCS 280-620736/1-A	Lab Control Sample	92	
LCS 280-621052/1-A	Lab Control Sample	92	
LCSD 280-620736/2-A	Lab Control Sample Dup	92	
LCSD 280-621052/2-A	Lab Control Sample Dup	92	
MB 280-620736/3-A	Method Blank	89	

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Surrogate Summary

Client: Wapiti Operating LLC

Method: 8015C -	Nonhalogenated O	rganics using	GC/FID -Modified (Gasoline Range Organics)
(Continued)			
Matrix: Solid			Prep Type: Total/NA
			Percent Surrogate Recovery (Acceptance Limits)
		TFT1	
Lab Sample ID	Client Sample ID	(77-123)	
MB 280-621052/3-A	Method Blank	89	

Surrogate Legend TFT = a,a,a-Trifluorotoluene

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) Matrix: Solid Prep Type: Total/NA

latrix: Solid			Prep Type: Total/NA
			Percent Surrogate Recovery (Acceptance Limits)
		OTPH1	
Lab Sample ID	Client Sample ID	(49-115)	
280-179304-1	Area #1 Sample # 1	68	
280-179304-2	Area #1 Sample # 2	71	
280-179304-3	Area #2 Sample # 1	79	
280-179304-4	Area #3 Sample # 1	61	
80-179304-4 MS	Area #3 Sample # 1	60	
80-179304-4 MS	Area #3 Sample # 1	62	
80-179304-4 MSD	Area #3 Sample # 1	54	
80-179304-4 MSD	Area #3 Sample # 1	59	
80-179304-5	Area #4 Sample # 1	78	
80-179304-10	Area #5 Sample # 1	77	
80-179304-11	Area #5 Sample # 2	74	
80-179304-12	Area #5 Sample # 3	73	
80-179304-13	Area #5 Sample # 4	81	
80-179304-14	Area #5 Sample # 5	81	
80-179304-15	Area #5 Sample # 6	83	
80-179304-16	Area #5 Sample # 7	80	
80-17930 4- 17	Area #5 Sample # 8	72	
CS 280-620620/2-A	Lab Control Sample	76	
CS 280-620620/3-A	Lab Control Sample	63	
/IB 280-620620/1-A	Method Blank	80	

OTPH = o-Terphenyl

QC Sample Results

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-621 Matrix: Solid Analysis Batch: 621484	1428/1-A MB	мв						le ID: Method Prep Type: Te Prep Batch:	otal/NA
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0050		mg/Kg	1.55	08/01/23 07:00	08/01/23 11:31	1
Ethylbenzene	ND		0.0050		mg/Kg		08/01/23 07:00	08/01/23 11:31	1
Toluene	ND		0.0050		mg/Kg		08/01/23 07:00	08/01/23 11:31	1
m-Xylene & p-Xylene	ND		0.0025		mg/Kg		08/01/23 07:00	08/01/23 11:31	1
o-Xylene	ND		0.0025		mg/Kg		08/01/23 07:00	08/01/23 11:31	1
Xylenes, Total	ND		0.0050		mg/Kg		08/01/23 07:00	08/01/23 11:31	à.
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		58_140				08/01/23 07:00	08/01/23 11:31	1
Toluene-d8 (Surr)	98		80_126				08/01/23 07:00	08/01/23 11:31	1
4-Bromofluorobenzene (Surr)	110		76 - 127				08/01/23 07:00	08/01/23 11:31	1
Dibromofluoromethane (Surr)	103		75-121				08/01/23 07:00	08/01/23 11:31	1

Lab Sample ID: LCS 280-621428/2-A Matrix: Solid Analysis Batch: 621484

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.0500	0.0444		mg/Kg		89	75 - 135
Ethylbenzene	0.0500	0.0426		mg/Kg		85	73 - 125
Toluene	0.0500	0.0436		mg/Kg		87	77 - 122
m-Xylene & p-Xylene	0.0500	0.0415		mg/Kg		83	77 - 135
o-Xylene	0.0500	0.0419		mg/Kg		84	75 - 135
Xylenes, Total	0.100	0.0834		mg/Kg		83	76 - 135

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		58 - 140
Toluene-d8 (Surr)	101		80 - 126
4-Bromofluorobenzene (Surr)	111		76 <u>- 1</u> 27
Dibromofluoromethane (Surr)	101		75_121

Lab Sample ID: LCSD 280-621428/3-A Matrix: Solid Amelia Detaile codiad

Analysis Batch: 621484					Prep Ba	itch: 62	21428
	Spike	LCSD LCSD			%Rec		RPD
Analyte	Added	Result Qualifier	Unit I) %Rec	Limits	RPD	Limit
Benzene	0.0500	0.0437	mg/Kg	87	75 - 135	2	20
Ethylbenzene	0.0500	0.0415	mg/Kg	83	73 - 125	3	20
Toluene	0.0500	0.0428	mg/Kg	86	77 _ 122	2	20
m-Xylene & p-Xylene	0.0500	0.0402	mg/Kg	80	77 - 135	3	20
o-Xylene	0.0500	0.0414	mg/Kg	83	75 - 135	1	20
Xylenes, Total	0.100	0.0816	mg/Kg	82	76 - 135	2	20
1000 1000							

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	113		58 - 140
Toluene-d8 (Surr)	101		80-126
4-Bromofluorobenzene (Surr)	112		76 <u>-</u> 127

10 1

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 621428

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Prep Type: Total/NA

Released to Imaging: 12/5/2023 12:16:04 PM

Job ID: 280-179304-1

QC Sample Results

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280- Matrix: Solid Analysis Batch: 621484	-621428/3-A				Clien	nt San		Control Samp Prep Type: T Prep Batch:	otal/NA
	LCSD LCS	SD							
Surrogate	%Recovery Qua	alifier	Limits						
Dibromofluoromethane (Surr)	102		75-121						
Lab Sample ID: MB 280-62	1562/1-A						Client Samn	le ID: Method	Blank
Matrix: Solid								Prep Type: To	
Analysis Batch: 621599								Prep Batch:	
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0050		mg/Kg		08/02/23 07:00	08/02/23 11:40	1
Ethylbenzene	ND		0.0050		mg/Kg		08/02/23 07:00	08/02/23 11:40	1
Toluene	ND		0.0050		mg/Kg		08/02/23 07:00	08/02/23 11:40	1
m-Xylene & p-Xylene	ND		0.0025		mg/Kg		08/02/23 07:00	08/02/23 11:40	1
o-Xylene	ND		0.0025		mg/Kg		08/02/23 07:00	08/02/23 11:40	1
Xylenes, Total	ND		0.0050		mg/Kg		08/02/23 07:00	08/02/23 11:40	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		58 - 140				08/02/23 07:00	08/02/23 11:40	1
Toluene-d8 (Surr)	98		80 - 126				08/02/23 07:00	08/02/23 11:40	1
4-Bromofluorobenzene (Surr)	109		76_127				08/02/23 07:00	08/02/23 11:40	1
Dibromofluoromethane (Surr)	109		75-121				08/02/23 07:00	08/02/23 11:40	1

Lab Sample ID: LCS 280-621562/2-A Matrix: Solid Analysis Batch: 621599

		Spike	LCS	LCS				%Rec
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
	Benzene	0.0500	0.0452	-	mg/Kg		90	75 - 135
	Ethylbenzene	0.0500	0.0435		mg/Kg		87	73 - 125
	Toluene	0.0500	0.0444		mg/Kg		89	77 - 122
	m-Xylene & p-Xylene	0.0500	0.0430		mg/Kg		86	77 - 135
	o-Xylene	0.0500	0.0429		mg/Kg		86	75 - 135
	Xylenes, Total	0.100	0.0859		mg/Kg		86	76 - 135
1								

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		58_140
Toluene-d8 (Surr)	102		80-126
4-Bromofluorobenzene (Surr)	109		76-127
Dibromofluoromethane (Surr)	101		75-121

Lab Sample ID: LCSD 280-621562/3-A Matrix: Solid Analysis Batch: 621599

Analysis Batch: 621599						Prep Ba	tch: 62	21562	
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0500	0.0450		mg/Kg		90	75 - 135	0	20
Ethylbenzene	0.0500	0.0430		mg/Kg		86	73 - 125	1	20
Toluene	0.0500	0.0441		mg/Kg		88	77 - 122	1	20
m-Xylene & p-Xylene	0.0500	0.0426		mg/Kg		85	77 - 135	1	20
o-Xylene	0.0500	0.0429		mg/Kg		86	75 - 135	0	20

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Prep Type: Total/NA

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

Client Sample ID: Lab Control Sample Dup

Prep Batch: 621562 С

QC Sample Results

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

Job ID: 280-179304-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280 Matrix: Solid)-621562/3-A					CI	ient Sar	nple	ID: Lab	Control Sam Prep Type:	Total/NA
Analysis Batch: 621599			Spike		LCSD					Prep Batch %Rec	: 621562 RPD
Analyte			Added	-	Qualifi	er	Unit	D	%Rec	Limits RI	
Xylenes. Total			0.100	0.0855			mg/Kg		86	76 - 135	0 20
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	108		58-140								
Toluene-d8 (Surr)	102		80 - 126								
4-Bromofluorobenzene (Surr)	111		76-127								
Dibromofluoromethane (Surr)	102		75-121								
lethod: 8015C - Nonh Lab Sample ID: MB 280-6;		d Organic	s using G	C/FID	-Mod	ifie	d (Gas			ge Organic	
Matrix: Solid										Prep Type:	Fotal/N/
Analysis Batch: 620733		MB MB								Prep Batch	620736
Analyte	Re	sult Qualifier	RI	_ 1	MDL Ur	nit	D	P	repared	Analyzed	Dil Fac
Gasoline Range Organics	10.	ND	2.0	0	mo	ı/Kg		07/2	5/23 19:37	07/25/23 23:53	1

	MB	MB	
Surrogate	%Recovery	Qualifier	Limits
a,a,a-Trifluorotoluene	89		77 - 123

Lab Sample ID: LCS 280-620736/1-A Matrix: Solid

(GRO)-C6-C10

Analyte

(GRO)-C6-C10

Gasoline Range Organics

Analysis Batch: 620733	0-ih-	1.00	1.00				Prep Batch: 620736
	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10	9.84	9.62		mg/Kg		98	75 - 135

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
a,a,a-Trifluorotoluene	92		77 - 123

Lab Sample ID: LCSD 280-620736/2-A Matrix: Solid Analysis Batch: 620733

		C	Client Sa	mple	ID: Lat	Control Prep Ty Prep Ba	pe: Tot	al/NA
Spike	LCSD	LCSD				%Rec	1011. 02	RPD
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
9.84	9.51		mg/Kg	= .=	97	75 - 135	1	30

Prepared

07/25/23 19:37 07/25/23 23:53

Client Sample ID: Lab Control Sample

Analyzed

Prep Type: Total/NA

Dil Fac

1

Surrogate	%Recovery	Qualifier	Limits
a,a,a-Trifluorotoluene	92		77 - 123

LCSD LCSD

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12 13 14

QC Sample Results

Client: Wapiti Operating LLC Project/Site: Produced Water Spill Job ID: 280-179304-1

Lab Sample ID: MB 280-6 Matrix: Solid Analysis Batch: 621045	21052/3-A								C	Clie	ent Samp	ole ID: M Prep Ty Prep Ba	pe: To	tal/N/
-		MB	MB											
Analyte	Re	esult	Qualifier	RL		MDL	Unit		D	Ρ	repared	Analyz	ed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10		ND		2.0			mg/K	g	Ō)7/2	7/23 22:34	07/28/23	01:13	
		MB	MB											
Surrogate	%Reco	very	Qualifier	Limits						P	repared	Analyz	ed	Dil Fa
a,a,a-Trifluorotoluene		89		77 - 123					C	07/2	7/23 22:34	07/28/23	01:13	
Lab Sample ID: LCS 280-	621052/1-A							Clie	ent S	Sar	nple ID:	Lab Con	trol S	ampl
Matrix: Solid												Ргер Туј		
Analysis Batch: 621045												Prep Ba	tch: 6	2105
				Spike	LCS	LCS						%Rec		
Analyte				Added	Result	Qua	lifier	Unit		D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10				9.84	9.67			mg/Kg			98	75 - 135		_
	LCS	LCS												
Surrogate	%Recovery	Qua	lifier	Limits							12			
a,a,a-Trifluorotoluene	92			77_123										
Lab Sample ID: LCSD 280	-621052/2-A						C	lient Sa	amp	le	ID: Lab (Control S	Sampl	e Dur
Matrix: Solid												Ргер Тур	be: To	tal/N/
Analysis Batch: 621045												Prep Ba	tch: 6	2105
				Spike	LCSD	LCS	D					%Rec		RP
nalyte				Added	Result	Qua	lifier	Unit		D	%Rec	Limits	RPD	Limi
Gasoline Range Organics GRO)-C6-C10				9.84	9.32			mg/Kg			95	75 - 135	4	30
	LCSD	LCS	D											
Surrogate	%Recovery	Qual	ifier	Limits										
a,a,a-Trifluorotoluene	92	-		77-123										

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Lab Sample ID: MB 280-6200 Matrix: Solid Analysis Batch: 621262		мв						ole ID: Method Prep Type: To Prep Batch: 0	otal/NA
Analyte Diesel Range Organics [C10-C28]		Qualifier	RL 8.0	MDL	Unit mg/Kg	<u>D</u>	Prepared 07/25/23 11:29	Analyzed 07/31/23 21:22	Dil Fac
Motor Oil (C20-C38)	ND		24		mg/Kg		07/25/23 11:29	07/31/23 21:22	1
	MB	MB							
Surrogate o-Terphenyl	80	Qualifier	Limits 49 - 115				Prepared 07/25/23 11:29	Analyzed 07/31/23 21:22	Dil Fac

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QC Sample Results

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

Job ID: 280-179304-1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) (Continued)

Matrix: Solid	620620/2-A					Ciler	1t Sa	mpie ID	: Lab Control Samp Prep Type: Total/N
Analysis Batch: 621262									Prep Batch: 62062
			Spike	LCS	LCS				%Rec
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits
Diesel Range Organics [C10-C28]			133	93.6		mg/Kg		70	53 - 115
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
o-Terphenyl	76	<u></u>	49 - 115						
Lab Sample ID: LCS 280-6 Matrix: Solid	6 20620/3-A					Clier	nt Sai	mple ID	: Lab Control Sampl Prep Type: Total/N
Analysis Batch: 621262									Prep Batch: 62062
			Spike	LCS	LCS				%Rec
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits
Motor Oil (C20-C38)			334	189		mg/Kg		57	57 - 115
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
o-Terphenyl	63		49 - 115						
Lab Sample ID: 280-17930)4-4 MS					Clie	nt Sa	mple ID): Area #3 Sample #
Matrix: Solid									Prep Type: Total/N
Analysis Batch: 621262									Prep Batch: 62062
	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Diesel Range Organics [C10-C28]	34	F1	130	106		mg/Kg		56	56 - 115
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
o-Terphenyl	60		49 - 115						
Lab Sample ID: 280-17930	4-4 MS					Clie	nt Sa	mple ID): Area #3 Sample #
									Prep Type: Total/N/
Matrix: Solid									Prep Batch: 62062
Matrix: Solid Analysis Batch: 621262									TOP BUILDIN OLOOL
	Sample	Sample	Spike	MS	MS				%Rec
		Sample Qualifier	Spike Added		MS Qualifier	Unit	D	%Rec	
Analysis Batch: 621262			•		-	Unit mg/Kg	<u>D</u>	%Rec 60	%Rec
Analysis Batch: 621262	Result	Qualifier	Added	Result	-		<u>D</u>		%Rec Limits
Analysis Batch: 621262 Analyte Motor Oil (C20-C38) Surrogate	Result 97	Qualifier MS	Added	Result	-		D		%Rec Limits
Analysis Batch: 621262 Analyte Motor Oil (C20-C38) Surrogate	Result 97 MS	Qualifier MS	Added 328	Result	-		D		%Rec Limits
Analysis Batch: 621262 Analyte Motor Oil (C20-C38) Surrogate p-Terphenyl	Result 97 MS %Recovery 62	Qualifier MS	Added 328	Result	-	mg/Kg		60	%Rec Limits
Analysis Batch: 621262 Analyte Motor Oil (C20-C38) Surrogate D-Terphenyl Lab Sample ID: 280-17930	Result 97 MS %Recovery 62	Qualifier MS	Added 328	Result	-	mg/Kg		60	%Rec Limits 57 - 115 0: Area #3 Sample # 4
Analysis Batch: 621262 Analyte Motor Oil (C20-C38) Surrogate D-Terphenyl Lab Sample ID: 280-17930 Matrix: Solid	Result 97 MS %Recovery 62	Qualifier MS	Added 328	Result	-	mg/Kg		60	%Rec Limits 57 - 115
Analysis Batch: 621262 Analyte Motor Oil (C20-C38)	Result 97 MS %Recovery 62	Qualifier MS Qualifier	Added 328	Result	Qualifier	mg/Kg		60	%Rec Limits 57 - 115 0: Area #3 Sample # 4
Analysis Batch: 621262 Analyte Motor Oil (C20-C38) Surrogate D-Terphenyl Lab Sample ID: 280-17930 Matrix: Solid	Result 97 MS <u>%Recovery</u> 62 4-4 MSD Sample	Qualifier MS Qualifier	Added 328 Limits 49 - 115	Result 292 MSD	Qualifier	mg/Kg		60 mple ID	%Rec Limits 57 - 115 Prea #3 Sample # 7 Prep Type: Total/N/ Prep Batch: 620620

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QC Sample Results

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

Job ID: 280-179304-1

	oumpio										
analysis Batom 020002	Sample	Sample	Spike	MS	MS				%Rec		
Matrix: Solid Analysis Batch: 620862									Ргер Ту	pe: So	olubie
ab Sample ID: 280-1793	04-1 MS					Clie	nt Sa	mple IE): Area #1	-	
									00-110	0	10
Chloride			1000	1060	quaimer	mg/Kg		106	Limits 90 - 110	RPD 0	Limit 10
Analyte			Spike Added		LCSD Qualifier	Unit	D	%Rec	%Rec	000	RPD Limit
Analysis Batch: 620862			0!!	1.000	1.000						— — :
Matrix: Solid									Prep Ty		
Lab Sample ID: LCSD 280	0-620708/2-A				α C	lient Sa	mple	ID: Lab	Control S		
				1000				100	55-110		
Chloride			1000	1060	Qualifier	Unit mg/Kg	D	%Rec 106	Limits 90 - 110		
Analyte			Spike Added		LCS	Unit	D	% Dee	%Rec		
Analysis Batch: 620862			e_::	1.00					N / D		
Matrix: Solid									Prep Ty	vpe: Sc	blubl
Lab Sample ID: LCS 280-	620708/1-A					Clier	nt Sar	nple ID	: Lab Con		
					ingrit	9			JIIZUIZJ		
Chloride	Ke	ND ND		30	mol Unit mg/K			repared	Analyz 07/26/23		Dil Fa
Analyte	De	MB MB sult Qualifier		RL	MDL Unit	-) P.	manarad	A make	ad 1	-
Analysis Batch: 620862											
Matrix: Solid									Prep Ty	/pe: So	olubl
Lab Sample ID: MB 280-6	20708/3-A						Clie	ent Sam	ple ID: M		
Chloride			5.00	5.32	audinet	mg/L		106	50 - 150		
Analyte			Added		Qualifier	Unit	л	%Rec	%Rec Limits		
Analysis Batch: 620862			Spike	MDI	MRL				0/ Dee		
Matrix: Solid									Prep Ty	pe: Tot	tal/N
Lab Sample ID: MRL 280	-620862/3					Clier	nt Sar	nple ID	: Lab Con		
lethod: 9056A - Anio	ns, ion ch	romatogra	рпу					-		-	_
o-Terphenyl			49 - 115								
Surrogate	MSD %Recovery		Limits						5		
	1100	MSD									
Motor Oil (C20-C38)	97		326	294	-	mg/Kg		60	57 - 115	1	3
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Analysis Batch: 621262	Sample	Sample	Spike	MSD	MSD				Prep Ba %Rec	atch: 6	2062 RP
Matrix: Solid									Prep Ty		
Lab Sample ID: 280-1793	104-4 MSD					Clie	ent Sa	mple II	D: Area #3		
o-Terphenyl	54		49 - 115								
Surrogate	%Recovery		Limits								
-	MSD	MSD							•		
Analysis Batch: 621262									Prep Ba	-	
Matrix: Solid									D: Area #3 Prep Ty		
Lab Sample ID: 280-1793 Matrix: Solid											

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13 14

QC Sample Results

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

Job ID: 280-179304-1

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: 280-179304 Matrix: Solid Analysis Batch: 620862	-1 MSD					Clie	nt Sai	mple I[D: Area #1 Prep Ty	-	
Analysis Daten. 020002	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	•	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	ND		502	587		mg/Kg		117	80 - 120	1	20
Lab Sample ID: 280-179304	-1 DH					Clia	nt Car	mpla IF	A	Samo	- # 4
Lab Sample ID: 280-179304 Matrix: Solid Analysis Batch: 620862	-1 DU					Clie	nt Sar	mple IC	D: Area #1 Prep Ty		
Matrix: Solid	-1 DU Sample	Sample		DU	DU	Clie	nt Sar	mple IC			
Matrix: Solid	Sample	Sample Qualifier		-	DU Qualifier	Clie Unit	nt Sar D	mple IC			luble

Method: Moisture - Percent Moisture

Lab Sample ID: 280-1793 Matrix: Solid Analysis Batch: 620681	304-17 DU				Cli	ient Sample	ID: Area #5 Samp Prep Type: Tot	
	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Percent Moisture	5.3		4.3	F3	%		22	20
Percent Solids	94.7		95.7		%		1	20

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Client Sample ID

Area #1 Sample # 1

Area #1 Sample # 2

Area #2 Sample # 1

Area #3 Sample # 1

Area #4 Sample # 1

Area #5 Sample # 1

Area #5 Sample # 2

Area #5 Sample # 3

Area #5 Sample # 5

Area #5 Sample # 6

GC/MS VOA

Lab Sample ID

280-179304-1

280-179304-2

280-179304-3

280-179304-4

280-179304-5

280-179304-10

280-179304-11

280-179304-12

280-179304-14

280-179304-15

Prep Batch: 621428

Ргер Туре

Total/NA

Matrix

Solid

Job ID: 280-179304-1

Method

5030B

621428

621428

621428

621428

621428

621428

621428

621428

621428

621428

621428

621428

Prep Batch

200 110004-10	Alea #J Gample # 0	IOLAI/INA	30liu	2030B
280-179304-16	Area #5 Sample # 7	Total/NA	Solid	5030B
280-179304-17	Area #5 Sample # 8	Total/NA	Solid	5030B
MB 280-621428/1-A	Method Blank	Total/NA	Solid	5030B
LCS 280-621428/2-A	Lab Control Sample	Total/NA	Solid	5030B
LCSD 280-621428/3-A	Lab Control Sample Dup	Total/NA	Solid	5030B
Analysis Batch: 6214	84			
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method
280-179304-1	Area #1 Sample # 1	Total/NA	Solid	8260B
280-179304-2	Area #1 Sample # 2	Total/NA	Solid	8260B
280-179304-3	Area #2 Sample # 1	Total/NA	Solid	8260B
280-179304-4	Area #3 Sample # 1	Total/NA	Solid	8260B
280-179304-5	Area #4 Sample # 1	Total/NA	Solid	8260B
280-179304-10	Area #5 Sample # 1	Total/NA	Solid	8260B
280-179304-11	Area #5 Sample # 2	Total/NA	Solid	8260B
280-179304-12	Area #5 Sample # 3	Total/NA	Solid	8260B
280-179304-14	Area #5 Sample # 5	Total/NA	Solid	8260B
280-179304-15	Area #5 Sample # 6	Total/NA	Solid	8260B
280-179304-16	Area #5 Sample # 7	Total/NA	Solid	8260B
280-179304-17	Area #5 Sample # 8	Total/NA	Solid	8260B
MB 280-621428/1-A	Method Blank	Total/NA	Solid	8260B
LCS 280-621428/2-A	Lab Control Sample	Total/NA	Solid	8260B
LCSD 280-621428/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B
Prep Batch: 621562				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method
280-179304-13	Area #5 Sample # 4	Total/NA	Solid	5030B
MB 280-621562/1-A	Method Blank	Total/NA	Solid	5030B
LCS 280-621562/2-A	Lab Control Sample	Total/NA	Solid	5030B
	·			

Analysis Batch: 621599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179304-13	Area #5 Sample # 4	Total/NA	Solid	8260B	621562
MB 280-621562/1-A	Method Blank	Total/NA	Solid	8260B	621562
LCS 280-621562/2-A	Lab Control Sample	Total/NA	Solid	8260B	621562
LCSD 280-621562/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B	621562

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

GC VOA

QC Association Summary

Job ID: 280-179304-1

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batcl
280-179304-1	Area #1 Sample # 1	Total/NA	Solid	8015C	62073
280-179304-2	Area #1 Sample # 2	Total/NA	Solid	8015C	62073
280-179304-3	Area #2 Sample # 1	Total/NA	Solid	8015C	62073
280-179304-4	Area #3 Sample # 1	Total/NA	Solid	8015C	62073
MB 280-620736/3-A	Method Blank	Total/NA	Solid	8015C	62073
LCS 280-620736/1-A	Lab Control Sample	Total/NA	Solid	8015C	62073
LCSD 280-620736/2-A	Lab Control Sample Dup	Total/NA	Solid	8015C	62073
rep Batch: 620736					1 1 1 1 1 1
Lab Sample ID 280-179304-1	Client Sample ID Area #1 Sample # 1	Prep Type	Matrix	Method	Prep Batcl
280-179304-2	·	Total/NA	Solid	5035	
	Area #1 Sample # 2	Total/NA	Solid	5035	
280-179304-3	Area #2 Sample # 1	Total/NA	Solid	5035	
280-179304-4	Area #3 Sample # 1	Total/NA	Solid	5035	
MB 280-620736/3-A	Method Blank	Total/NA	Solid	5035	
-CS 280-620736/1-A	Lab Control Sample	Total/NA	Solid	5035	
_CSD 280-620736/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
nalysis Batch: 6210	45				
ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batc
80-179304-5	Area #4 Sample # 1	Total/NA	Solid	8015C	621052
80-179304-10	Area #5 Sample # 1	Total/NA	Solid	8015C	621052
80-179304-11	Area #5 Sample # 2	Total/NA	Solid	8015C	621052
80-179304-12	Area #5 Sample # 3	Total/NA	Solid	8015C	62105
80-179304-13	Area #5 Sample # 4	Total/NA	Solid	8015C	621052
80-179304-14	Area #5 Sample # 5	Total/NA	Solid	8015C	621052
80-179304-15	Area #5 Sample # 6	Total/NA	Solid	8015C	621052
80-179304-16	Area #5 Sample # 7	Total/NA	Solid	8015C	621052
80-179304-17	Area #5 Sample # 8	Total/NA	Solid	8015C	621052
/IB 280-621052/3-A	Method Blank	Total/NA	Solid	8015C	621052
CS 280-621052/1-A	Lab Control Sample	Total/NA	Solid	8015C	621052
CSD 280-621052/2-A	Lab Control Sample Dup	Total/NA	Solid	8015C	621052
ep Batch: 621052					
ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
80-179304-5	Area #4 Sample # 1	Total/NA	Solid	5035	
80-17930 4- 10	Area #5 Sample # 1	Total/NA	Solid	5035	
80-179304 - 11	Area #5 Sample # 2	Total/NA	Solid	5035	
80-179304-12	Area #5 Sample # 3	Total/NA	Solid	5035	
80-179304-13	Area #5 Sample # 4	Total/NA	Solid	5035	
80-179304-14	Area #5 Sample # 5	Total/NA	Solid	5035	
80-179304-15	Area #5 Sample # 6	Total/NA	Solid	5035	
80-179304-16	Area #5 Sample # 7	Total/NA	Solid	5035	
00 470004 47					

Area #5 Sample # 8

Lab Control Sample

Lab Control Sample Dup

Method Blank

280-179304-17

MB 280-621052/3-A

LCS 280-621052/1-A

LCSD 280-621052/2-A

Total/NA

Total/NA

Total/NA

Total/NA

Solid

Solid

Solid

Solid

5035

5035

5035

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

GC Semi VOA

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-179304-1	Area #1 Sample # 1	Total/NA	Solid	3546	
280-179304-2	Area #1 Sample # 2	Total/NA	Solid	3546	
280-179304-3	Area #2 Sample # 1	Total/NA	Solid	3546	
280-179304-4	Area #3 Sample # 1	Total/NA	Solid	3546	
280-179304-5	Area #4 Sample # 1	Total/NA	Solid	3546	
280-179304-10	Area #5 Sample # 1	Total/NA	Solid	3546	
280-179304-11	Area #5 Sample # 2	Total/NA	Solid	3546	
280-179304-12	Area #5 Sample # 3	Total/NA	Solid	3546	
280-179304-13	Area #5 Sample # 4	Total/NA	Solid	3546	
280-179304-14	Area #5 Sample # 5	Total/NA	Solid	3546	
280-179304-15	Area #5 Sample # 6	Total/NA	Solid	3546	
80-179304-16	Area #5 Sample # 7	Total/NA	Solid	3546	
280-179304-17	Area #5 Sample # 8	Total/NA	Solid	3546	
/IB 280-620620/1-A	Method Blank	Total/NA	Solid	3546	
CS 280-620620/2-A	Lab Control Sample	Total/NA	Solid	3546	
CS 280-620620/3-A	Lab Control Sample	Total/NA	Solid	3546	
80-179304-4 MS	Area #3 Sample # 1	Total/NA	Solid	3546	
80-179304 - 4 MS	Area #3 Sample # 1	Total/NA	Solid	3546	
80-179304-4 MSD	Area #3 Sample # 1	Total/NA	Solid	3546	
80-179304-4 MSD	Area #3 Sample # 1	Total/NA	Solid	3546	
ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
80-179304-1	Area #1 Sample # 1	Total/NA	Solid	8015C	620620
80-179304-2	Area #1 Sample # 2	Total/NA	Solid	8015C	620620
80-179304-3	Area #2 Sample # 1	Total/NA	Solid	8015C	620620
80-179304-4	Area #3 Sample # 1	Total/NA	Solid	8015C	620620
30-179304-5	Area #4 Sample # 1	Total/NA	Solid	8015C	620620
80-179304-10	Area #5 Sample # 1	Total/NA	Solid	8015C	620620
80-179304-11	Area #5 Sample # 2	Total/NA	Solid	8015C	620620
30-179304-12	Area #5 Sample # 3	Total/NA	Solid	8015C	620620
80-179304-13	Area #5 Sample # 4	Total/NA	Solid	8015C	620620
80-179304-14	Area #5 Sample # 5	Total/NA	Solid	8015C	620620
80-179304-15	Area #5 Sample # 6	Total/NA	Solid	8015C	620620
80-179304-16	Area #5 Sample # 7	Total/NA	Solid	8015C	620620
80-179304-17	Area #5 Sample # 8	Total/NA	Solid	8015C	620620
B 280-620620/1-A	Method Blank	Total/NA	Solid	8015C	620620
CS 280-620620/2-A	Lab Control Sample	Total/NA	Solid	8015C	620620
CS 280-620620/3-A	Lab Control Sample	Total/NA	Solid	8015C	620620
30-179304-4 MS	Area #3 Sample # 1	Total/NA	Solid	8015C	620620
30-179304-4 MS	Area #3 Sample # 1	Total/NA	Solid	8015C	620620
80-179304-4 MSD	Area #3 Sample # 1	Total/NA	Solid	8015C	620620

General Chemistry

Area #3 Sample # 1

280-179304-4 MSD

Analysis Batch: 620681

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-179304-1	Area #1 Sample # 1	Total/NA	Solid	Moisture	
280-179304-2	Area #1 Sample # 2	Total/NA	Solid	Moisture	
280-179304-3	Area #2 Sample # 1	Total/NA	Solid	Moisture	

Total/NA

Solid

8015C

5

QC Association Summary

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

General Chemistry (Continued)

Job ID: 280-179304-1

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179304-4	Area #3 Sample # 1	Total/NA	Solid	Moisture	
280-179304-5	Area #4 Sample # 1	Total/NA	Solid	Moisture	
280-179304-10	Area #5 Sample # 1	Total/NA	Solid	Moisture	
280-179304-11	Area #5 Sample # 2	Total/NA	Solid	Moisture	
280-179304-12	Area #5 Sample # 3	Total/NA	Solid	Moisture	
280-179304-13	Area #5 Sample # 4	Total/NA	Solid	Moisture	
280-179304-14	Area #5 Sample # 5	Total/NA	Solid	Moisture	
280-179304-15	Area #5 Sample # 6	Total/NA	Solid	Moisture	
280-179304-16	Area #5 Sample # 7	Total/NA	Solid	Moisture	
280-179304-17	Area #5 Sample # 8	Total/NA	Solid	Moisture	
280-179304-17 DU	Area #5 Sample # 8	Total/NA	Solid	Moisture	

Leach Batch: 620708

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch	10
280-179304-1	Area #1 Sample # 1	Soluble	Solid	DI Leach		
280-179304-2	Area #1 Sample # 2	Soluble	Solid	DI Leach		21
280-179304-3	Area #2 Sample # 1	Soluble	Solid	DI Leach		
280-179304-4	Area #3 Sample # 1	Soluble	Solid	DI Leach		1000
280-179304-5	Area #4 Sample # 1	Soluble	Solid	DI Leach		13
280-179304-10	Area #5 Sample # 1	Soluble	Solid	DI Leach		
280-179304-11	Area #5 Sample # 2	Soluble	Solid	DI Leach		
280-179304-12	Area #5 Sample # 3	Soluble	Solid	DI Leach		
280-179304-13	Area #5 Sample # 4	Soluble	Solid	DI Leach		
280-179304-14	Area #5 Sample # 5	Soluble	Solid	DI Leach		
280-179304-15	Area #5 Sample # 6	Soluble	Solid	DI Leach		
280-179304-16	Area #5 Sample # 7	Soluble	Solid	DI Leach		
280-179304-17	Area #5 Sample # 8	Soluble	Solid	DI Leach		
MB 280-620708/3-A	Method Blank	Soluble	Solid	DI Leach		
LCS 280-620708/1-A	Lab Control Sample	Soluble	Solid	DI Leach		
LCSD 280-620708/2-A	Lab Control Sample Dup	Soluble	Solid	DI Leach		
280-179304-1 MS	Area #1 Sample # 1	Soluble	Solid	DI Leach		
280-179304-1 MSD	Area #1 Sample # 1	Soluble	Solid	DI Leach		
280-179304-1 DU	Area #1 Sample # 1	Soluble	Solid	DI Leach		

Analysis Batch: 620862

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-179304-1	Area #1 Sample # 1	Soluble	Solid	9056A	620708
280-179304-2	Area #1 Sample # 2	Soluble	Solid	9056A	620708
280-179304-3	Area #2 Sample # 1	Soluble	Solid	9056A	620708
280-179304-4	Area #3 Sample # 1	Soluble	Solid	9056A	620708
280-179304-5	Area #4 Sample # 1	Soluble	Solid	9056A	620708
280-179304-10	Area #5 Sample # 1	Soluble	Solid	9056A	620708
280-179304-11	Area #5 Sample # 2	Soluble	Solid	9056A	620708
280-179304-12	Area #5 Sample # 3	Soluble	Solid	9056A	620708
280-179304-13	Area #5 Sample # 4	Soluble	Solid	9056A	620708
280-179304-14	Area #5 Sample # 5	Soluble	Solid	9056A	620708
280-179304-15	Area #5 Sample # 6	Soluble	Solid	9056A	620708
280-179304-16	Area #5 Sample # 7	Soluble	Solid	9056A	620708
280-179304-17	Area #5 Sample # 8	Soluble	Solid	9056A	620708
MB 280-620708/3-A	Method Blank	Soluble	Solid	9056A	620708
LCS 280-620708/1-A	Lab Control Sample	Soluble	Solid	9056A	620708

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QC Association Summary

Client: Wapiti Operating LLC Project/Site: Produced Water Spill Job ID: 280-179304-1

General Chemistry (Continued)

Analysis Batch: 620862 (Continued)

Lab Sample ID LCSD 280-620708/2-A	Client Sample ID Lab Control Sample Dup	Prep Type Soluble	Matrix Solid	Method 9056A		Prep Batch 620708
MRL 280-620862/3	Lab Control Sample	Total/NA	Solid	9056A		
280-179304-1 MS	Area #1 Sample # 1	Soluble	Solid	9056A	4	620708
280-179304-1 MSD	Area #1 Sample # 1	Soluble	Solid	9056A		620708
280-179304-1 DU	Area #1 Sample # 1	Soluble	Solid	9056A		620708

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Matrix: Solid

Lab Sample ID: 280-179304-1

Lab Chronicle

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

Client Sample ID: Area #1 Sample # 1 Date Collected: 07/19/23 13:00 Date Received: 07/20/23 09:58

	Batch	Batch		Dil	Initial	Final	Batch	Drenered		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.032 g	5 mL	621428	08/01/23 10:42		EET DEN
Total/NA	Analysis	8260B		1	5 g	5 mL	621484	08/01/23 20:10	JLS	EET DEN
Total/NA	Prep	5035			5.711 g	5 mL	620736	07/19/23 13:00	JPH	EET DEN
Total/NA	Analysis	8015C		1	0.1 mL	5 mL	620733	07/26/23 02:40	JPH	EET DEN
Total/NA	Prep	3546			15.2 g	1 mL	620620	07/25/23 11:29	DN	EET DEN
Total/NA	Analysis	8015C		1			621262	07/31/23 22:31	CAS	EET DEN
Soluble	Leach	DI Leach			9.98 g	100 mL	620708	07/25/23 15:47	MEC	EET DEN
Soluble	Analysis	9056A		1	10 mL	10 mL	620862	07/26/23 19:42	MEC	EET DEN
Total/NA	Analysis	Moisture		1			620681	07/25/23 12:58	ZPM	EET DEN

Client Sample ID: Area #1 Sample # 2 Date Collected: 07/19/23 13:10

Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-2

Lab Sample ID: 280-179304-3

Matrix: Solid

Matrix: Solid

12

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B		······································	4.958 g	5 mL	621428	08/01/23 10:42	JLS	EET DEN
Total/NA	Analysis	8260B		1	5 g	5 mL	621484	08/01/23 16:02	JLS	EET DEN
Total/NA	Ргер	5035			3.706 g	5 mL	620736	07/19/23 13:10	JPH	EET DEN
Total/NA	Analysis	8015C		1	0.1 mL	5 mL	620733	07/26/23 03:04	JPH	EET DEN
Total/NA	Ргер	3546			15.3 g	1 mL	620620	07/25/23 11:29	DN	EET DEN
Total/NA	Analysis	8015C		1			621262	07/31/23 22:54	CAS	EET DEN
Soluble	Leach	DI Leach			9.97 g	100 mL	620708	07/25/23 15:47	MEC	EET DEN
Soluble	Analysis	9056A		1	10 mL	10 mL	620862	07/26/23 20:50	MEC	EET DEN
īotal/NA	Analysis	Moisture		1			620681	07/25/23 12:58	ZPM	EET DEN

Client Sample ID: Area #2 Sample # 1 Date Collected: 07/19/23 13:20 Date Received: 07/20/23 09:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Ргер	5030B			5.048 g	5 mL	621428	08/01/23 10:42	JLS	EET DEN
Total/NA	Analysis	8260B		1	5 g	5 mL	621484	08/01/23 16:23	JLS	EET DEN
Total/NA	Prep	5035			4.456 g	5 mL	620736	07/19/23 13:20	JPH	EET DEN
Total/NA	Analysis	8015C		1	0.1 mL	5 mL	620733	07/26/23 03:28	JPH	EET DEN
Total/NA	Prep	3546			15.4 g	1 mL	620620	07/25/23 11:29	DN	EET DEN
Total/NA	Analysis	8015C		1			621262	07/31/23 23:16	CAS	EET DEN
Soluble	Leach	DI Leach			10.03 g	100 mL	620708	07/25/23 15:47	MEC	EET DEN
Soluble	Analysis	9056A		1	10 mL	10 mL	620862	07/26/23 21:07	MEC	EET DEN
Total/NA	Analysis	Moisture		1			620681	07/25/23 12:58	ZPM	EET DEN

Matrix: Solid

Lab Chronicle

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

Client Sample ID: Area #3 Sample # 1 Date Collected: 07/19/23 13:25 Date Received: 07/20/23 09:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B		S - 5	5.023 g	5 mL	621428	08/01/23 10:42	JLS	EET DEN
Total/NA	Analysis	8260B		্	5 g	5 mL	621484	08/01/23 16:44	JLS	EET DEN
Total/NA	Prep	5035			4.521 g	5 mL	620736	07/19/23 13:25	JPH	EET DEN
Total/NA	Analysis	8015C		1	0.1 mL	5 mL	620733	07/26/23 03:52	JPH	EET DEN
Total/NA	Prep	3546			15.5 g	1 mL	620620	07/25/23 11:29	DN	EET DEN
Total/NA	Analysis	8015C		1			621262	07/31/23 23:39	CAS	EET DEN
Soluble	Leach	DI Leach			9.98 g	100 mL	620708	07/25/23 15:47	MEC	EET DEN
Soluble	Analysis	9056A		1	10 mL	10 mL	620862	07/26/23 21:24	MEC	EET DEN
Total/NA	Analysis	Moisture		a -			620681	07/25/23 12:58	ZPM	EET DEN

Client Sample ID: Area #4 Sample # 1 Date Collected: 07/19/23 13:30 Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-5

Lab Sample ID: 280-179304-10

Lab Sample ID: 280-179304-4

Matrix: Solid

Matrix: Solid

12

	Batch	Batch	_	Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.939 g	5 mL	621428	08/01/23 10:42	JLS	EET DEN
Total/NA	Analysis	8260B		1	5 g	5 mL	621484	08/01/23 17:04	JLS	EET DEN
Total/NA	Ргер	5035			5.127 g	5 mL	621052	07/19/23 13:30	JPH	EET DEN
Total/NA	Analysis	8015C		1	0.1 mL	5 mL	621045	07/28/23 02:01	JPH	EET DEN
Total/NA	Ргер	3546			15.5 g	1 mL	620620	07/25/23 11:29	DN	EET DEN
Total/NA	Analysis	8015C		1			621262	08/01/23 01:32	CAS	EET DEN
Soluble	Leach	DI Leach			9.98 g	100 mL	620708	07/25/23 15:47	MEC	EET DEN
Soluble	Analysis	9056A		1	10 mL	10 mL	620862	07/26/23 22:15	MEC	EET DEN
Total/NA	Analysis	Moisture		1			620681	07/25/23 12:58	ZPM	EET DEN

Client Sample ID: Area #5 Sample # 1 Date Collected: 07/19/23 15:00 Date Received: 07/20/23 09:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.055 g	5 mL	621428	08/01/23 10:42	JLS	EET DEN
Total/NA	Analysis	8260B		1	5 g	5 mL	621484	08/01/23 17:25	JLS	EET DEN
Total/NA	Ргер	5035			4.777 g	5 mL	621052	07/19/23 15:00	JPH	EET DEN
Total/NA	Analysis	8015C		1	0.1 mL	5 mL	621045	07/28/23 02:25	JPH	EET DEN
Total/NA	Ргер	3546			15.7 g	1 mL	620620	07/25/23 11:29	DN	EET DEN
Total/NA	Analysis	8015C		1			621262	08/01/23 01:55	CAS	EET DEN
Soluble	Leach	DI Leach			10.00 g	100 mL	620708	07/25/23 15:47	MEC	EET DEN
Soluble	Analysis	9056A		1	10 mL	10 mL	620862	07/26/23 22:32	MEC	EET DEN
Total/NA	Analysis	Moisture		- 1			620681	07/25/23 12:58	ZPM	EET DEN

Lab Chronicle

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

Client Sample ID: Area #5 Sample # 2 Date Collected: 07/19/23 15:10 Date Received: 07/20/23 09:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Ргер	5030B			4.918 g	5 mL	621428	08/01/23 10:42	JLS	EET DEN
Total/NA	Analysis	8260B		1	5 g	5 mL	621484	08/01/23 17:46	JLS	EET DEN
Total/NA	Prep	5035			4.824 g	5 mL	621052	07/19/23 15:10	JPH	EET DEN
Total/NA	Analysis	8015C		1	0.1 mL	5 mL	621045	07/28/23 02:49	JPH	EET DEN
Total/NA	Ргер	3546			15.1 g	1 mL	620620	07/25/23 11:29	DN	EET DEN
Total/NA	Analysis	8015C		1			621262	08/01/23 02:18	CAS	EET DEN
Soluble	Leach	DI Leach			10.03 g	100 mL	620708	07/25/23 15:47	MEC	EET DEN
Soluble	Analysis	9056A		1	10 mL	10 mL	620862	07/26/23 22:49	MEC	EET DEN
Total/NA	Analysis	Moisture		1			620681	07/25/23 12:58	ZPM	EET DEN

Client Sample ID: Area #5 Sample # 3 Date Collected: 07/19/23 15:20 Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-12

Lab Sample ID: 280-179304-13

Matrix: Solid

Matrix: Solid

12

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Ргер	5030B			5.033 g	5 mL	621428	08/01/23 10:42	JLS	EET DEN
Total/NA	Analysis	8260B		1	5 g	5 mL	621484	08/01/23 18:06	JLS	EET DEN
Total/NA	Prep	5035			5.043 g	5 mL	621052	07/19/23 15:20	JPH	EET DEN
Total/NA	Analysis	8015C		1	0.1 mL	5 mL	621045	07/28/23 03:13	JPH	ÉET DEN
Total/NA	Prep	3546			15.1 g	1 mL	620620	07/25/23 11:29	DN	EET DEN
Total/NA	Analysis	8015C		1			621262	08/01/23 02:40	CAS	EET DEN
Soluble	Leach	DI Leach			10.01 g	100 mL	620708	07/25/23 15:47	MEC	EET DEN
Soluble	Analysis	9056A		1	10 mL	10 mL	620862	07/26/23 23:06	MEC	EET DEN
Total/NA	Analysis	Moisture		1			620681	07/25/23 12:58	ZPM	EET DEN

Client Sample ID: Area #5 Sample # 4 Date Collected: 07/19/23 15:30 Date Received: 07/20/23 09:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.912 g	5 mL	621562	08/02/23 09:50	JLS	EET DEN
Total/NA	Analysis	8260B		1	5 g	5 mL	621599	08/02/23 14:05	JLS	EET DEN
Total/NA	Prep	5035			4.566 g	5 mL	621052	07/19/23 15:30	JPH	EET DEN
Total/NA	Analysis	8015C		1	0.1 mL	5 mL	621045	07/28/23 03:36	JPH	EET DEN
Total/NA	Ргер	3546			15.3 g	1 mL	620620	07/25/23 11:29	DN	EET DEN
Total/NA	Analysis	8015C		1			621262	08/01/23 03:03	CAS	EET DEN
Soluble	Leach	DI Leach			9.96 g	100 mL	620708	07/25/23 15:47	MEC	EET DEN
Soluble	Analysis	9056A		1	10 mL	10 mL	620862	07/26/23 23:23	MEC	EET DEN
Total/NA	Analysis	Moisture		1			620681	07/25/23 12:58	ZPM	EET DEN

Matrix: Solid

Lab Sample ID: 280-179304-14

Lab Chronicle

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

Client Sample ID: Area #5 Sample # 5 Date Collected: 07/19/23 15:40 Date Received: 07/20/23 09:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Ргер	5030B		·	5.015 g	5 mL	621428	08/01/23 10:42	JLS	EET DEN
Total/NA	Analysis	8260B		ৰ্	5 g	5 mL	621484	08/01/23 18:48	JLS	EET DEN
Total/NA	Prep	5035			4.644 g	5 mL	621052	07/19/23 15:40	JPH	EET DEN
Total/NA	Analysis	8015C		1	0.1 mL	5 mL	621045	07/28/23 04:00	JPH	EET DEN
Total/NA	Prep	3546			15.2 g	1 mL	620620	07/25/23 11:29	DN	EET DEN
Total/NA	Analysis	8015C		1			621262	08/01/23 03:26	CAS	EET DEN
Soluble	Leach	DI Leach			10.04 g	100 mL	620708	07/25/23 15:47	MEC	EET DEN
Soluble	Analysis	9056A		1	10 mL	10 mL	620862	07/26/23 23:40	MEC	EET DEN
Total/NA	Analysis	Moisture		1			620681	07/25/23 12:58	ZPM	EET DEN

Client Sample ID: Area #5 Sample # 6 Date Collected: 07/19/23 15:50 Date Received: 07/20/23 09:58

Lab Sample ID: 280-179304-15

Lab Sample ID: 280-179304-16

Matrix: Solid

Matrix: Solid

12

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.844 g	5 mL	621428	08/01/23 10:42	JLS	EET DEN
Total/NA	Analysis	8260B		1	5 g	5 mL	621484	08/01/23 19:08	JLS	EET DEN
Total/NA	Prep	5035			5.248 g	5 mL	621052	07/19/23 15:50	JPH	EET DEN
Total/NA	Analysis	8015C		1	0.1 mL	5 mL	621045	07/28/23 04:24	JPH	EET DEN
Total/NA	Ргер	3546			5.0 g	1 mL	620620	07/25/23 11:29	DN	EET DEN
Total/NA	Analysis	8015C		1			621262	08/01/23 04:33	CAS	EET DEN
Soluble	Leach	DI Leach			9.98 g	100 mL	620708	07/25/23 15:47	MEC	EET DEN
Soluble	Analysis	9056A		1	10 mL	10 mL	620862	07/26/23 23:57	MEC	EET DEN
Total/NA	Analysis	Moisture		1			620681	07/25/23 12:58	ZPM	EET DEN

Client Sample ID: Area #5 Sample # 7 Date Collected: 07/19/23 16:00 Date Received: 07/20/23 09:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.056 g	5 mL	621428	08/01/23 10:42	JLS	EET DEN
Total/NA	Analysis	8260B		1	5 g	5 mL	621484	08/01/23 19:29	JLS	EET DEN
Total/NA	Ргер	5035			4.593 g	5 mL	621052	07/19/23 16:00	JPH	EET DEN
Total/NA	Analysis	8015C		1	0.1 mL	5 mL	621045	07/28/23 07:56	JPH	EET DEN
Total/NA	Prep	3546			15.3 g	1 mL	620620	07/25/23 11:29	DN	EET DEN
Total/NA	Analysis	8015C		1			621262	08/01/23 04:56	CAS	EET DEN
Soluble	Leach	DI Leach			10.03 g	100 mL	620708	07/25/23 15:47	MEC	EET DEN
Soluble	Analysis	9056A		1	10 mL	10 mL	620862	07/27/23 00:14	MEC	EET DEN
Total/NA	Analysis	Moisture		1			620681	07/25/23 12:58	ZPM	EET DEN

Lab Chronicle

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

Client Sample ID: Area #5 Sample # 8 Date Collected: 07/19/23 16:10 Date Received: 07/20/23 09:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.972 g	5 mL	621428	08/01/23 10:42	JLS	EET DEN
Total/NA	Analysis	8260B		1	5 g	5 mL	6214 84	08/01/23 19:49	JLS	EET DEN
Total/NA	Prep	5035			4.918 g	5 mL	621052	07/19/23 16:10	JPH	EET DEN
Total/NA	Analysis	8015C		1	0.1 mL	5 mL	621045	07/28/23 17:17	JPH	EET DEN
Total/NA	Prep	3546			15.4 g	1 mL	620620	07/25/23 11:29	DN	EET DEN
Total/NA	Analysis	8015C		1			621262	08/01/23 05:18	CAS	EET DEN
Soluble	Leach	DI Leach			9.96 g	100 mL	620708	07/25/23 15:47	MEC	EET DEN
Soluble	Analysis	9056A		1	10 mL	10 mL	620862	07/27/23 00:31	MEC	EET DEN
Total/NA	Analysis	Moisture		1			620681	07/25/23 13:01	ZPM	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Job ID: 280-179304-1

Lab Sample ID: 280-179304-17 Matrix: Solid

Eurofins Denver

Accreditation/Certification Summary

Client: Wapiti Operating LLC Project/Site: Produced Water Spill

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date		
A2LA	Dept. of Defense ELAP	2907.01	10-31-23		
A2LA	ISO/IEC 17025	2907.01	10-31-23		
Alabama	State Program	40730	09-30-12 *		
Alaska (UST)	State	18-001	02-10-24		
Arizona	State	AZ0713	12-20-24		
Arkansas DEQ	State	19-047-0	05-31-23 *		
California	State	2513	01-09-24		
Connecticut	State	PH-0686	09-30-24		
Florida	NELAP	E87667-57	06-30-23 *		
Georgia	State	4025-011	01-08-24		
Illinois	NELAP	2000172019-1	04-30-24		
lowa	State	370	12-01-24		
Kansas	NELAP	E-10166	04-30-24		
Kentucky (WW)	State	KY98047	12-31-23		
Louisiana	NELAP	30785	06-30-14 *		
Louisiana	NELAP	30785	06-30-23 *		
Louisiana (All)	NELAP	30785	06-30-24		
Minnesota	NELAP	1788752	12-31-23		
Nevada	State	CO000262020-1	07-31-23 *		
New Hampshire	NELAP	2053	04-28-24		
New Jersey	NELAP	230001	06-30-24		
New York	NELAP	59923	03-31-24		
North Carolina (WW/SW)	State	358	12-31-23		
North Dakota	State	R-034	01-08-24		
Oklahoma	NELAP	8614	08-31-23		
Oklahoma	State	2018-006	08-31-23		
Dregon	NELAP	4025-019	01-08-24		
South Carolina	State	72002001	01-08-24		
Texas	NELAP	TX104704183-08-TX	09-30-09 *		
Texas	NELAP	T104704183-21-19	09-30-23		
JSDA	US Federal Programs	P330-20-00065	12-19-25		
Jtah	NELAP	QUAN5	06-30-13 *		
Jtah	NELAP	CO000262019-11	07-31-23 *		
/irginia	NELAP	12037	06-14-23 *		
Washington	State	C583-19	08-03-23		
West Virginia DEP	State	354	11-30-23		
Nisconsin	State	999615430	08-31-23		
Wyoming (UST)	A2LA	2907.01	10-31-22 *		

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Denver 4955 Yarrow Street Arvada, CO 80002 Phone (303) 736-0100 Fax (303) 431 7171	Chain of Custody Record								•	🔅 eurofins	Environment Testing TestAmerica		
Client Information	Kandy L. Marie	Can Tumer	Shelby F	2			Ca	mer Tracki	ing No(s):			COC No:	
Client Contact: Mr Randy Madison	1-575-445-6701	E-Mai	urner@e		nsus.c	om	_					Page:	
Company: Wapiti Operating, LLC	1. e 110 1100					2	Reque	esteri			~	Job#	
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State, Zip: NM 87740				Organics								D Nitric Acid E NaHSO4	P Ne2O4S Q Ne2SO3
Phone: 575-445-6706(Tel) Emai	Po#: Pay by Credit Card Wo#:	(oN		Diesel and Motor Oli Range Geodine Range Dramice	Relief							F MeOH G Amchlor H Ascorbic Acid	R Na2S2O3 S H2SO4 T TSP Dodecahydrate U Acetone
rmadison@wapitienergy com Project Name:		s or No)	(ON:	tor O							2	J DI Water	V MCAA W pH 4-5
Produced Water Spill	Project#: 28020400	Sample (Yes	es or	Diesel and Moto Geofine Range							containers	L EDA	Z other (specify)
Site:	SSOW#:	dure	Chloride	B561 a			11				of cor	Other:	
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Eurofins TestAmerica, Denver																			
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Arvada, CO 80002 Phone (303) 736-0100 Fax (303) 431 7171		onant	01 04	otody i	100														Envir TestA
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Company Wapiti Operating LLC					1				A	nalv	ysis I	Rea	uest	ed				Job #:	
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rmadison@wapitienergy.com Project Name:	Project #:				DS OF	orwoh	otor C							d.			5	J DI Water K EDTA	V MCA VV pH
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eurofins Environment Testing TestAmerica

M Hexane

O AsNaO2

P Na2O4S Q Na2SO3 R Na2E2O3

S H2SO4 T TSP Dodecahydrate

U Acetone V MCAA

₩ pH 4-5 Z other (specify)

Special Instructions/Note:

Months

Company Company

Company

Ver 01/16/2019

N None

Released to Imaging: 12/5/2023 12:16:04 PM

8/4/2023

Job Number: 280-179304-1

Login Sample Receipt Checklist

Client: Wapiti Operating LLC

Login Number: 179304		List Source: Eurofins Denver
List Number: 1 Creator: Roehsner, Karen P		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	Ink smudged on GRO vials but the labels are still readable.
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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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:
Wapiti Operating, LLC	328741
1251 Lumpkin Rd	Action Number:
Houston, TX 77043	255636
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
nvelez	None	12/5/2023

Action 255636

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