Received by OCD: 4/12/2021/5:32:39 AM State of New Mexico
Page 1 Oil Conservation Division

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Incident ID	NRM2012859198
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Advance Energy Partners Hat Mesa LLC	OGRID: 372417
Contact Name: David Harwell	Contact Telephone: 281-235-3431
Contact email: DHarwell@advanceenergypartners.com	Incident # (assigned by OCD)
Contact mailing address: 11490 Westheimer Rd. Suite 950.	
Houston, TX 77077	

Location of Release Source

Latitude 32.442001 Longitude -103.548690 (NAD 83 in decimal degrees to 5 decimal places)

Site Name: Merchant State Unit 551H 03302020

Site Type: Production Pad

API# 30-025-46363

Unit Letter	Section	Township	Range	County
D	35	21S	33E	Lea

Surface Owner: State Federal Tribal Private

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 Recovered (bbls): 3 Volume Released (bbls): 4.4 Produced Water Volume Released (bbls) 17.7 Volume Recovered (bbls): 12 Is the concentration of dissolved chloride in the X Yes ☐ No produced water >10,000 mg/l? Condensate Volume Released (bbls) Volume Recovered (bbls) Natural Gas Volume Released (Mcf) Volume Recovered (Mcf) Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units) Cause of Release: Failure of flowline at wellhead at 90 deg. elbow. The well was shut down and vacuum truck dispatch to location to recover free liquid. The flowline from wellhead was repaired. Attached are release volume calculations.

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			Application	ı ID
Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the response	onsible party con	sider this a major relea	ase?
☐Yes ⊠ No				
If YES, was immediate n	otice given to the OCD? By whom? To w	hom? When and	by what means (phor	ne, email, etc)?
	Initial 1	Response		
The responsibl	e party must undertake the following actions immedic	utely unless they coul	d create a safety hazard tha	st would result in injury
☐ The impacted area ha☐ Released materials ha	ease has been stopped. Is been secured to protect human health and the use of berms or recoverable materials have been removed a	dikes, absorbent	pads, or other contain	ment devices.
	d above have <u>not</u> been undertaken, explain	·	adiataly often discours	wy of a valence. If remodiation
has begun, please attach	AC the responsible party may commence a narrative of actions to date. If remedial at area (see 19.15.29.11(A)(5)(a) NMAC),	efforts have bee	n successfully comple	eted or if the release occurred
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.				
	w Parker (R.T. Hicks Consultants)		=	
	consult.com		970-570-9535	
OCD Only Received by:	ona Marcus	Date: 5/7/20	20	

Spill Dimensions to Volume of Release Spray Area			
Input	volume of affected soil	[feet^3]	1522.50
Input	Porosity: typically is .35 to .40 for most soils	[-]	0.35
Input	Proportion of porosity filled with release fluid [0,1]	[-]	0.15
Output	volume of fluid	[feet^3]	79.9
Output		[gal]	597.9
		Barrels	14.2

Spill Dimensions to Volume of Release			
	Area of Saturation	on	
Input	volume of affected soil	[feet^3]	842.50
Input	Porosity: typically is .35 to .40 for most soils	[-]	0.35
Input Proportion of porosity filled with release fluid [-] 0.15		0.15	
Output	volume of fluid	[feet^3]	44.2
Output	Output		330.9
Barrels 7.9			

Total Release Volume	Barrels	22.1
Produced Water	Barrels	17.7
Crude Oil	Barrels	4.4

e of New Mexico Incident ID NRM2012859198

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release? Plate 2	(ft bgs)		
Did this release impact groundwater or surface water?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? Plate 4	☐ 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)? Plate 3 & 4	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? Plate 5	☐ 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? Plate 3 & 4	☐ Yes ⊠ No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? Plate 3 & 4	☐ Yes ⊠ No		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? Plate 6	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of a wetland? Plate 7	☐ Yes ⊠ No		
Are the lateral extents of the release overlying a subsurface mine? Plate 8	☐ Yes ⊠ No		
Are the lateral extents of the release overlying an unstable area such as karst geology? Plate 9	☐ Yes ⊠ No		
Are the lateral extents of the release within a 100-year floodplain? Plate 10	☐ Yes ⊠ No		
Did the release impact areas not on an exploration, development, production, or storage site? Initial release did not	☐ 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 well Field data 	ls.		
Data table of soil contaminant concentration data			
Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release			
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs			
Photographs including date and GIS information			
Topographic/Aerial maps			
☐ Laboratory data including chain of custody			

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

Received by OCD: 4/12/2021 5:32:39 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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ID NRM2012859198

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name: Andrew Parker Title:	Env. Scientist		
Signature: Ordner Ordner	Date:April 4, 2021		
email: <u>aparker@advanceenergypartners.com</u>	Telephone: 970-570-9535		
OCD Only			
Received by:	Date:		

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Incident ID	NRM2012859198
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Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.							
 ☑ Detailed description of proposed remediation technique ☑ Scaled sitemap with GPS coordinates showing delineation points ☑ Estimated volume of material to be remediated ☑ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC ☑ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 							
<u>Deferral Requests Only</u> : Each of the following items must be confirmed as part of any request for deferral of remediation.							
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.							
Extents of contamination must be fully delineated.							
Contamination does not cause an imminent risk to human health, the environment, or groundwater.							
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.							
Printed Name: Andrew Parker Title: Env. Scientist							
Signature: Date: April 4, 2021							
email: _aparker@advacneenergypartners.com Telephone:970-570-9535							
OCD Only							
Received by: Date:							
Approved							
Signature: Date:							

rate of New Mexico Incident ID NPM2012850108

Incident ID	NRM2012859198
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.
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
hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules nd regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which nay endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability hould their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, uman health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for ompliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially estore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in coordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. **Trinted Name: Andrew Parker Title: Env. Scientist **Trinted Name: Andrew Parker Title: Env. Scientist **Trinted Name: Andrew Parker Title: Env. Scientist **Trinted Name: Andrew Parker Title: Parker
OCD Only
Received by: Chad Hensley Date: 07/27/201
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and emediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible arty of compliance with any other federal, state, or local laws and/or regulations.
Closure Approved by:
Printed Name: Chad Hensley Title: Environmental Specialist Advanced

From: <u>Eads, Cristina, EMNRD</u>
To: <u>Andrew rthicksconsult</u>

Subject: RE: [EXT] RE: Merchant State Unit 551H Proposed Sample Base Sample Grid Size

Date: Friday, May 15, 2020 9:46:47 AM

Attachments: <u>image001.png</u>

Andrew,

As we discussed over the phone, during a conversation with OCD staff regarding the base sample frequency, it was decided composite base samples shall not represent an area of more than 1200 square feet. All other requirements remain as stated in my previous email to you, included in this email string.

Please let me know if you have any questions.

Thanks,

Cristina Eads | 505-670-5601

From: andrew@rthicksconsult.com <andrew@rthicksconsult.com>

Sent: Monday, May 11, 2020 10:18 AM

To: Eads, Cristina, EMNRD < Cristina. Eads@state.nm.us>

Cc: 'David Harwell' <DHarwell@advanceenergypartners.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>

Subject: RE: [EXT] RE: Merchant State Unit 551H Proposed Sample Base Sample Grid Size

Cristina:

Thanks for the confirmation.

Andrew Parker R.T. Hicks Consultants Durango Field Office 970-570-9535

From: Eads, Cristina, EMNRD < cristina.Eads@state.nm.us>

Sent: Monday, May 11, 2020 9:47 AM

To: andrew@rthicksconsult.com

Cc: 'David Harwell' < <u>DHarwell@advanceenergypartners.com</u>>; Bratcher, Mike, EMNRD

<mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <<u>Robert.Hamlet@state.nm.us</u>>; Venegas,

Victoria, EMNRD < <u>Victoria.Venegas@state.nm.us</u>>

Subject: RE: [EXT] RE: Merchant State Unit 551H Proposed Sample Base Sample Grid Size

Andrew, thanks for the photos.

The confirmation composite base samples shall not represent an area greater than 500 square feet. Confirmation composite sidewall samples shall not represent an area greater than 200 square feet. The OCD will allow for 75% of samples to be analyze for Benzene and TPH, and 100% to be analyzed for Chloride.

As for a deferral request, any areas where contamination is expected to be left in place must be completely delineated before OCD will consider granting approval of the request.

Please let me know if you have any questions, or if you need to discuss this incident in further detail.

Thanks, Cristina

Cristina Eads | 505-670-5601

From: andrew@rthicksconsult.com <andrew@rthicksconsult.com>

Sent: Friday, May 8, 2020 9:27 AM

To: Eads, Cristina, EMNRD < <u>Cristina.Eads@state.nm.us</u>> **Cc:** 'David Harwell' < <u>DHarwell@advanceenergypartners.com</u>>

Subject: [EXT] RE: Merchant State Unit 551H Proposed Sample Base Sample Grid Size

Cristina:

Attached are a few photos of the excavation. More photos at

https://rthicks.egnyte.com/fl/Fw9JiBLP7z

Accessible until May 22, 2020

Thanks for evaluating a larger sample grid size for the base.

Andrew Parker R.T. Hicks Consultants Durango Field Office 970-570-9535

From: andrew@rthicksconsult.com <andrew@rthicksconsult.com>

Sent: Thursday, May 7, 2020 12:17 PM

To: 'Eads, Cristina, EMNRD' < <u>Cristina.Eads@state.nm.us</u>> **Cc:** 'David Harwell' < <u>DHarwell@advanceenergypartners.com</u>>

Subject: Merchant State Unit 551H Proposed Sample Base Sample Grid Size

Importance: High

Cristina:

Per our phone conversation:

- Attached is the C-141. Advance Energy Partners may not have filed this at the beginning of April. In any event, AEP re-submitted today via the fee portal. Attached is the PO #.
- Attached is a map of the release extent relative to
 - Release Extent
 - EM Survey
 - Current Excavation Extent
 - Proposed Sample Grid Size Comparison.

As shown on the map, the EM Survey shows areas of concern (yellow to red shading) at depths down to 4.5 feet beyond the release extent. These areas of concern correlate with areas of elevated chloride concentrations relative to background concentrations. Some areas identified are caused by metal interference that will be described in the closure report. As shown, the current excavation extent is well beyond the initial release extent reported on the C-141. The observed impact beyond the release extent was likely caused from drilling and completion operations that occurred within the past last year.

Excavation depth is to 4.3 ft below production pad surface unless otherwise noted. The north edge of the pad is cut 4-feet below ground surface. Therefore, two areas north of the production pad that required remediation is noted as 0 to +4 ft, where +4ft is the level of the natural ground surface north of the production pad.

To date, approximately 9,000 cu. Yrds of material has been excavated. The cost to the remediation is likely to exceed \$1M.

Considering the large excavation extent and associated costs, we ask the NMOCD to approve a confirmation base sampling grid not to exceed 1200 sq. ft (34.5 x 34.5 ft). See attached map for base grid size comparison. Each base sample will be comprised of a 5-point composite. The constituent of concern is chloride (produced water). Therefore we ask NMOCD to allow for seventy-five percent (75%) of the samples to be analyzed for TPH and Benzene. All samples will be analyzed for chloride.

Additionally, we have been field screening for electrical conductivity during excavation activities. Excavation continued until EC < 0.2 dS/m in the upper 4-feet, which correlates with a chloride concentration of < 600 mg/kg. The area north of the three west wellheads may require deferment. The central southeast area may require additional characterization.

Please call me with any questions or interpretation of the map.

We will begin sampling on Monday May 11th.

Thank you for your consideration.

Andrew Parker R.T. Hicks Consultants Durango Field Office From: <u>Eads, Cristina, EMNRD</u>

To: Andrew rthicksconsult; Enviro, OCD, EMNRD

Cc: Randy Black; David Harwell; Jacob rthickconsult; joel@rthicksconsult.com; "Kristin Pope"

Subject: RE: [EXT] NRM2012859198 - Extension Request MSU 551H Advance Energy

Date: Friday, June 12, 2020 9:42:52 AM

Attachments: <u>image003.png</u>

Andrew,

Thank you for the status update at this incident site. The request for a 90 day extension added to the current remediation due date is granted for the reasons stated in the memo.

At this time, a deferral will not be considered. The OCD will evaluate the deferral request when the C-141 and remediation report is reviewed.

Please let me know if you have any questions.

Thanks,

Cristina Eads

Environmental Bureau
EMNRD – Oil Conservation Division
5200 Oakland Avenue NE, Suite 100
Albuquerque, New Mexico 87113
505.670-5601

email: Cristina.Eads@state.nm.us



OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

From: andrew@rthicksconsult.com <andrew@rthicksconsult.com>

Sent: Friday, June 12, 2020 6:56 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@state.nm.us>

Cc: 'Randy Black' <RBlack@advanceenergypartners.com>; 'David Harwell'

<DHarwell@advanceenergypartners.com>; 'Jacob Saenz' <jacob@rthicksconsult.com>;

joel@rthicksconsult.com; 'Kristin Pope' <kristin@rthicksconsult.com>

Subject: [EXT] NRM2012859198 - Extension Request MSU 551H Advance Energy

Ms. Eads:

Per our phone conversation, attached is an extension request to complete remedial activities at the above referenced Advance Energy Partners location.

Please contact me with any questions. Please note I will be out of the office from June 14th through

July 4^{th} . I will have limited email and cell phone coverage.

Thank you.

Andrew Parker R.T. Hicks Consultants Durango Field Office 970-570-9535 From: <u>Eads, Cristina, EMNRD</u>

To: Andrew Parker; Enviro, OCD, EMNRD
Cc: David Harwell; Randy Black

Subject: RE: [EXT] NRM2012859198 - Extension Request MSU 551H Advance Energy

Date: Friday, September 18, 2020 7:18:23 AM

Attachments: <u>image003.png</u>

Andrew,

Thank you for the additional information. Your extension request is approved. Remediation will be due 90 days from today, December 17th, 2020.

Please let me know if you have any questions.

Thanks,

Cristina Eads | 505-670-5601

From: Andrew Parker <AParker@advanceenergypartners.com>

Sent: Thursday, September 17, 2020 5:46 PM

To: Eads, Cristina, EMNRD < Cristina. Eads@state.nm.us>; Enviro, OCD, EMNRD

<OCD.Enviro@state.nm.us>

Cc: David Harwell < DHarwell@advanceenergypartners.com>; Randy Black

<RBlack@advanceenergypartners.com>

Subject: RE: [EXT] NRM2012859198 - Extension Request MSU 551H Advance Energy

Ms. Eads:

Attached is a request for extension of remedial activities at the above referenced location. Fracking and flowback operations are expected to begin in October and equipment is mobilizing to the location where additional remedial activities is necessary.

Please let me know if you have any questions.

Thank you.

Andrew Parker Env. Scientist

M: (970) 570-9535



From: Eads, Cristina, EMNRD < Cristina.Eads@state.nm.us>

Sent: Friday, June 12, 2020 9:43 AM

To: andrew@rthicksconsult.com; Enviro, OCD, EMNRD < OCD.Enviro@state.nm.us>

Cc: 'Randy Black' <RBlack@advanceenergypartners.com>; 'David Harwell' <<u>DHarwell@advanceenergypartners.com</u>>; 'Jacob Saenz' <<u>jacob@rthicksconsult.com</u>>; <u>joel@rthicksconsult.com</u>>

Subject: RE: [EXT] NRM2012859198 - Extension Request MSU 551H Advance Energy

Andrew,

Thank you for the status update at this incident site. The request for a 90 day extension added to the current remediation due date is granted for the reasons stated in the memo.

At this time, a deferral will not be considered. The OCD will evaluate the deferral request when the C-141 and remediation report is reviewed.

Please let me know if you have any questions.

Thanks,

Cristina Eads

Environmental Bureau

EMNRD – Oil Conservation Division

5200 Oakland Avenue NE, Suite 100

Albuquerque, New Mexico 87113

505.670-5601

email: Cristina.Eads@state.nm.us



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From: andrew@rthicksconsult.com <andrew@rthicksconsult.com>

Sent: Friday, June 12, 2020 6:56 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@state.nm.us >

Cc: 'Randy Black' < <u>RBlack@advanceenergypartners.com</u>>; 'David Harwell'

<DHarwell@advanceenergypartners.com>; 'Jacob Saenz' <jacob@rthicksconsult.com>;

<u>joel@rthicksconsult.com</u>; 'Kristin Pope' < <u>kristin@rthicksconsult.com</u>>

Subject: [EXT] NRM2012859198 - Extension Request MSU 551H Advance Energy

Ms. Eads:

Per our phone conversation, attached is an extension request to complete remedial activities at the above referenced Advance Energy Partners location.

Please contact me with any questions. Please note I will be out of the office from June 14th through th

July 4 . I will have limited email and cell phone coverage.

Thank you.

Andrew Parker R.T. Hicks Consultants Durango Field Office 970-570-9535 From: <u>Eads, Cristina, EMNRD</u> on behalf of <u>Enviro, OCD, EMNRD</u>

To: <u>Andrew Parker</u>; <u>Enviro, OCD, EMNRD</u>

Cc: Randy Black

Subject: RE: [EXT] NRM2012859198 - Extension Request MSU 551H Advance Energy

Date: Tuesday, December 22, 2020 9:45:53 AM

Attachments: <u>image003.png</u>

Andrew,

This extension request is approved. A remediation plan or closure report will be due on March 17, 2021.

Thanks,

Cristina Eads • Environmental Specialist - A

Environmental Bureau
EMNRD - Oil Conservation Division
5200 Oakland Ave, Suite100 | Albuquerque, NM 87113
505.670.5601 | Cristina.Eads@state.nm.us

http://www.emnrd.state.nm.us/OCD/

From: Andrew Parker <AParker@advanceenergypartners.com>

Sent: Tuesday, December 15, 2020 2:07 PM

To: Eads, Cristina, EMNRD <Cristina.Eads@state.nm.us>; Enviro, OCD, EMNRD

<OCD.Enviro@state.nm.us>

Cc: Randy Black < RBlack@advanceenergypartners.com>

Subject: RE: [EXT] NRM2012859198 - Extension Request MSU 551H Advance Energy

Ms. Eads,

Completion operations at the three adjacent wells completed this week. Flowback operations are scheduled for next week. Flowback operations will take about 90 to 120-days for the three wells.

Therefore, Advance Energy Partners respectfully asks NMOCD for a 90-day extension to complete remedial actions at the MSU 551H (Incident #NRM2012859198).

Please contact me with any questions.

Thank you,

Andrew Parker Environmental Scientist 970-570-9535



From: Eads, Cristina, EMNRD < Cristina.Eads@state.nm.us>

Sent: Friday, September 18, 2020 7:18 AM

To: Andrew Parker < <u>AParker@advanceenergypartners.com</u>>; Enviro, OCD, EMNRD

<<u>OCD.Enviro@state.nm.us</u>>

Cc: David Harwell < <u>DHarwell@advanceenergypartners.com</u>>; Randy Black

<RBlack@advanceenergypartners.com>

Subject: RE: [EXT] NRM2012859198 - Extension Request MSU 551H Advance Energy

Andrew,

Thank you for the additional information. Your extension request is approved. Remediation will be due 90 days from today, December 17th, 2020.

Please let me know if you have any questions.

Thanks,

Cristina Eads | 505-670-5601

From: Andrew Parker <<u>AParker@advanceenergypartners.com</u>>

Sent: Thursday, September 17, 2020 5:46 PM

To: Eads, Cristina, EMNRD < Cristina.Eads@state.nm.us; Enviro, OCD, EMNRD

<<u>OCD.Enviro@state.nm.us</u>>

Cc: David Harwell < <u>DHarwell@advanceenergypartners.com</u>>; Randy Black

<RBlack@advanceenergypartners.com>

Subject: RE: [EXT] NRM2012859198 - Extension Request MSU 551H Advance Energy

Ms. Eads:

Attached is a request for extension of remedial activities at the above referenced location. Fracking and flowback operations are expected to begin in October and equipment is mobilizing to the location where additional remedial activities is necessary.

Please let me know if you have any questions.

Thank you.

Andrew Parker Env. Scientist M: (970) 570-9535



From: Eads, Cristina, EMNRD < Cristina. Eads@state.nm.us>

Sent: Friday, June 12, 2020 9:43 AM

To: andrew@rthicksconsult.com; Enviro, OCD, EMNRD < OCD.Enviro@state.nm.us>

Cc: 'Randy Black' < RBlack@advanceenergypartners.com; 'David Harwell'

joel@rthicksconsult.com; 'Kristin Pope' < kristin@rthicksconsult.com>

Subject: RE: [EXT] NRM2012859198 - Extension Request MSU 551H Advance Energy

Andrew,

Thank you for the status update at this incident site. The request for a 90 day extension added to the current remediation due date is granted for the reasons stated in the memo.

At this time, a deferral will not be considered. The OCD will evaluate the deferral request when the C-141 and remediation report is reviewed.

Please let me know if you have any questions.

Thanks,

Cristina Eads

Environmental Bureau

EMNRD – Oil Conservation Division
5200 Oakland Avenue NE, Suite 100

Albuquerque, New Mexico 87113
505.670-5601

email: Cristina.Eads@state.nm.us



OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

From: <u>andrew@rthicksconsult.com</u> < <u>andrew@rthicksconsult.com</u>>

Sent: Friday, June 12, 2020 6:56 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@state.nm.us >

Cc: 'Randy Black' < <u>RBlack@advanceenergypartners.com</u>>; 'David Harwell'

<<u>DHarwell@advanceenergypartners.com</u>>; 'Jacob Saenz' <<u>jacob@rthicksconsult.com</u>>;

<u>ioel@rthicksconsult.com</u>; 'Kristin Pope' < <u>kristin@rthicksconsult.com</u>>

Subject: [EXT] NRM2012859198 - Extension Request MSU 551H Advance Energy

Ms. Eads:

Per our phone conversation, attached is an extension request to complete remedial activities at the above referenced Advance Energy Partners location.

th

Please contact me with any questions. Please note I will be out of the office from June 14 $\,$ through July 4th. I will have limited email and cell phone coverage.

Thank you.

Andrew Parker R.T. Hicks Consultants Durango Field Office 970-570-9535 From: <u>Eads, Cristina, EMNRD</u>
To: <u>Andrew Parker</u>

Cc: Randy Black; Braden Harris; Enviro, OCD, EMNRD; Baron Chandler; Jacob Saenz

Subject: RE: [EXT] NRM2012859198 - Extension Request MSU 551H Advance Energy

Date: Friday, March 12, 2021 2:44:49 PM

Attachments: <u>image004.png</u>

Andrew,

Your extension request is approved. A remediation plan will be due on April 16, 2021.

Thank you,

Cristina Eads • Environmental Specialist - A

Environmental Bureau

EMNRD - Oil Conservation Division
5200 Oakland Ave, Suite100 | Albuquerque, NM 87113
505.670.5601 | Cristina.Eads@state.nm.us

http://www.emnrd.state.nm.us/OCD/

From: Andrew Parker <AParker@advanceenergypartners.com>

Sent: Friday, March 12, 2021 2:10 PM

To: Eads, Cristina, EMNRD < Cristina. Eads@state.nm.us>

Cc: Randy Black <RBlack@advanceenergypartners.com>; Braden Harris

<BHarris@advanceenergypartners.com>; Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>; Baron

Chandler < BChandler@advanceenergypartners.com>; Jacob Saenz

<JSaenz@advanceenergypartners.com>

Subject: RE: [EXT] NRM2012859198 - Extension Request MSU 551H Advance Energy

Cristina,

We are finalizing the characterization of incident NRM2012859198. We have additional horizontal and vertical delineation to perform along a 60-ft segment along the southern extent and along the southeast extent, see attached map. After additional characterization, we will submit a remediation and restoration plan to NMOCD. Our current deadline is March 17, 2021. Therefore, Advance Energy respectfully asks NMOCD for a 30-day extension to complete additional characterization and submit the remediation and restoration plan.

Please contact me with any questions.

Thank you,

Andrew Parker Environmental Scientist Mobile: 970-570-9535



From: Eads, Cristina, EMNRD < Cristina. Eads@state.nm.us > On Behalf Of Enviro, OCD, EMNRD

Sent: Tuesday, December 22, 2020 9:46 AM

To: Andrew Parker < <u>AParker@advanceenergypartners.com</u>>; Enviro, OCD, EMNRD

<OCD.Enviro@state.nm.us>

Cc: Randy Black < RBlack@advanceenergypartners.com >

Subject: RE: [EXT] NRM2012859198 - Extension Request MSU 551H Advance Energy

Andrew,

This extension request is approved. A remediation plan or closure report will be due on March 17, 2021.

Thanks,

Cristina Eads • Environmental Specialist - A

Environmental Bureau
EMNRD - Oil Conservation Division
5200 Oakland Ave, Suite100 | Albuquerque, NM 87113
505.670.5601 | Cristina.Eads@state.nm.us
http://www.emnrd.state.nm.us/OCD/

From: Andrew Parker < <u>AParker@advanceenergypartners.com</u>>

Sent: Tuesday, December 15, 2020 2:07 PM

To: Eads, Cristina, EMNRD < Cristina. Eads@state.nm.us >; Enviro, OCD, EMNRD

<<u>OCD.Enviro@state.nm.us</u>>

Cc: Randy Black < RBlack@advanceenergypartners.com >

Subject: RE: [EXT] NRM2012859198 - Extension Request MSU 551H Advance Energy

Ms. Eads,

Completion operations at the three adjacent wells completed this week. Flowback operations are scheduled for next week. Flowback operations will take about 90 to 120-days for the three wells.

Therefore, Advance Energy Partners respectfully asks NMOCD for a 90-day extension to complete remedial actions at the MSU 551H (Incident #NRM2012859198).

Please contact me with any questions.

Thank you,

Andrew Parker Environmental Scientist 970-570-9535



From: Eads, Cristina, EMNRD < Cristina.Eads@state.nm.us>

Sent: Friday, September 18, 2020 7:18 AM

To: Andrew Parker < <u>AParker@advanceenergypartners.com</u>>; Enviro, OCD, EMNRD

<OCD.Enviro@state.nm.us>

Cc: David Harwell < <u>DHarwell@advanceenergypartners.com</u>>; Randy Black

<RBlack@advanceenergypartners.com>

Subject: RE: [EXT] NRM2012859198 - Extension Request MSU 551H Advance Energy

Andrew,

Thank you for the additional information. Your extension request is approved. Remediation will be due 90 days from today, December 17th, 2020.

Please let me know if you have any questions.

Thanks,

Cristina Eads | 505-670-5601

From: Andrew Parker <<u>AParker@advanceenergypartners.com</u>>

Sent: Thursday, September 17, 2020 5:46 PM

To: Eads, Cristina, EMNRD < Cristina.Eads@state.nm.us; Enviro, OCD, EMNRD

<<u>OCD.Enviro@state.nm.us</u>>

Cc: David Harwell < <u>DHarwell@advanceenergypartners.com</u>>; Randy Black

<RBlack@advanceenergypartners.com>

Subject: RE: [EXT] NRM2012859198 - Extension Request MSU 551H Advance Energy

Ms. Eads:

Attached is a request for extension of remedial activities at the above referenced location. Fracking and flowback operations are expected to begin in October and equipment is mobilizing to the location where additional remedial activities is necessary.

Please let me know if you have any questions.

Thank you.

Andrew Parker Env. Scientist M: (970) 570-9535



From: Eads, Cristina, EMNRD < Cristina.Eads@state.nm.us>

Sent: Friday, June 12, 2020 9:43 AM

To: andrew@rthicksconsult.com; Enviro, OCD, EMNRD < OCD.Enviro@state.nm.us>

Cc: 'Randy Black' < RBlack@advanceenergypartners.com; 'David Harwell'

<<u>DHarwell@advanceenergypartners.com</u>>; 'Jacob Saenz' <<u>jacob@rthicksconsult.com</u>>;

<u>joel@rthicksconsult.com</u>; 'Kristin Pope' < <u>kristin@rthicksconsult.com</u>>

Subject: RE: [EXT] NRM2012859198 - Extension Request MSU 551H Advance Energy

Andrew,

Thank you for the status update at this incident site. The request for a 90 day extension added to the current remediation due date is granted for the reasons stated in the memo.

At this time, a deferral will not be considered. The OCD will evaluate the deferral request when the C-141 and remediation report is reviewed.

Please let me know if you have any questions.

Thanks,

Cristina Eads

Environmental Bureau
EMNRD – Oil Conservation Division
5200 Oakland Avenue NE, Suite 100
Albuquerque, New Mexico 87113
505.670-5601

email: Cristina.Eads@state.nm.us



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Cc: 'Randy Black' < <u>RBlack@advanceenergypartners.com</u>>; 'David Harwell'

<DHarwell@advanceenergypartners.com>; 'Jacob Saenz' <jacob@rthicksconsult.com>;

<u>joel@rthicksconsult.com</u>; 'Kristin Pope' < <u>kristin@rthicksconsult.com</u>>

Subject: [EXT] NRM2012859198 - Extension Request MSU 551H Advance Energy

Ms. Eads:

Per our phone conversation, attached is an extension request to complete remedial activities at the above referenced Advance Energy Partners location.

Please contact me with any questions. Please note I will be out of the office from June 14^{th} through July 4^{th} . I will have limited email and cell phone coverage.

Thank you.

Andrew Parker R.T. Hicks Consultants Durango Field Office 970-570-9535



11490 Westheimer Road, Suite 950, Houston, Texas 77077 • Phone 832-672-4700 • Fax 832-672-4609

April 4, 2021

RE:

Closure Report Incident ID: NRM2012859198 AEP #: 03302020-0636-prodops

Location: Merchant State Unit 551H (API: 30-025-46363)

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

NMOCD:

Advance Energy Partners Hat Mesa LLC (AEP) submits this remediation and closure report for the above referenced incident. AEP remediated and restored impacted soil on the associated active production pad, to the extent practical, to the more stringent closure criteria concentrations as listed in Table 1 of 19.15.29 NMAC; where depth to water is greater than 100 ft. For areas off-site, AEP remediated, restored, and reclaimed impacted areas. During remedial activities, impact to the active production pad beyond the observed release extent was observed above the more stringent closure criteria concentrations listed in Table 1 of 19.15.29 NMAC.

Remediation of impacted soils occurred in two phases to coincide with well drilling and completion operations. During the remediation lifecycle, three extension requests were submitted and approved

- June 12, 2020
- September 17, 2020
- December 15, 2020 (Remediation/Closure report due March 17, 2021)
- March 12, 2021 (Remediation/Closure report due April 16, 2021)

On May 15, 2020; NMOCD approved a composite base sample frequency not to represent an area of more than 1200 sq. ft.; and a previous approval on May 11, 2020 that allows for only 75% of samples to be analyze for Benzene and TPH, and 100% of samples to be analyzed for Chloride.

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Incident ID: NRM2012859198 AEP #: 03302020-0636-prodops

1. Characterization

The following sections address items as described in 19.15.29.11.A, paragraphs 1- 4. Please refer to the C-141 characterization checklist for additional setback criteria and verification (Plates 5-10).

1.1. Site Map

Horizontal extent of the release was determined by visual observations the day of the release and mapped using GPS technology with sub-meter accuracy.

Plate 1 shows the release extent defined by 1) area of saturation and 2) area of overspray from released fluid; and initial hand auger soil samples obtained the day of the release for initial release characterization.

The source of the release is located at Lat: 32.442001, Long: -103.548690; at the MSU 551H wellhead.

1.2. Depth to Ground Water

Plate 2 shows the depth to ground water reproduced from Open File Report -95¹ published by Geohydrology Associates, Inc for the Bureau of Land Management (BLM). As shown on Plate 2, depth to water is approximately 150 feet below ground surface.

Most recent depth to water data was queried from the USGS and New Mexico Office of the State Engineer (OSE) online databases. Spatial analysis shows the nearest water well (OSE Well CP1411 POD 1; mapped as MISC-396) is approximately 0.25 miles west with a depth to water of 800 ft (dated 10/14/2014).

Potentiometric surface calculations indicate that the depth to water is approximately 148 feet below ground surface, where 148 feet = 3688 ft surface elevation – 3540 ft potentiometric surface.

Appendix A are the wells logs for nearby wells.

1.3. Wellhead Protection Area

Plate 3 shows that the release extent is not:

- Within incorporated municipal boundaries or within a defined municipal fresh water well field.
- Within ½-mile private and domestic water sources (wells and springs).
- 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
- Within 1000 feet of any other fresh water well or spring



¹ Collection of hydrologic data Eastside Roswell Range EIS area, New Mexico. https://geoinfo.nmt.edu/publications/openfile/details.cfml?Volume=95

Incident ID: NRM2012859198 AEP #: 03302020-0636-prodops

1.4. Distance to Nearest Significant Water Course

Plate 4 shows that the release extent is not:

- Within ½ mile of any significant water course.
- Within 300 feet of a continuously flowing watercourse or any other significant watercourse.
- Within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

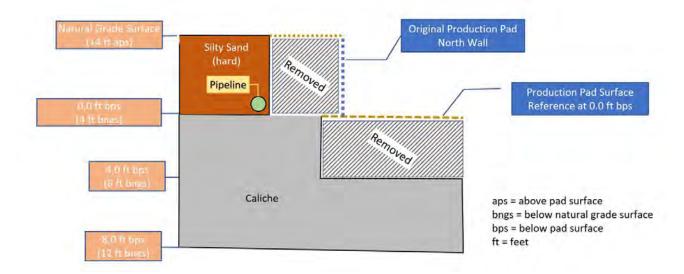
1.5. Soil/Waste Characteristics

The release occurred in an area where depth to water is greater than 100 ft below ground surface (bgs) and on an active production pad.

Remediation activities showed the lithology, where production pad surface benchmarked as 0-feet below ground surface, as:

- +4-0 ft : Removed during production pad construction (cut material for production pad surface) at northern half of production pad
- 0 1 ft : Caliche Pad.
- 1 2.5 ft: Caliche, hard, fractured.
- 2.5 7 ft: Caliche, medium denisty.

The production pad surface has a reference point of 0 feet below pad surface (0 ft bps) as shown in the below sketch. The northern portion of the production pad was cut into a natural slope; therefore, the northern portion of the production pad is 4-feet below natural grade surface (bngs). For regulatory purposes, closure criteria of areas on the production pad were measured from the production pad surface. Areas north of the production pad (offsite and on an active pipeline right-of-way) and within the natural grade, depths for closure criteria were measured from +4 feet above pad surface (+4 feet aps).





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Incident ID: NRM2012859198 AEP #: 03302020-0636-prodops

Initial characterization soil samples (Plate 1) were obtained from within the area of saturation (HA-02, HA-03) and area of surface spray (HA-01). Soil samples were collected at the surface to a depth of 2-feet using a hand auger. Additional characterization samples were not collected as remediation was anticipated to begin with a couple weeks.

Highest concentrations of hydrocarbons and chloride were detected at the surface, as expected. The soil samples were collected the day of the release. Chloride concentrations were detected above Table 1 of 19.15.29 NMAC most stringent closure criteria at a depth of 2-feet below production pad surface (bps). Elevated chloride concentrations were not expected at depth and suggest the presence of a past release. At 2-feet bps, hydrocarbons were detected but below Table 1 of 19.15.29 NMAC closure criteria where depth to water > 100ft.

Table 1 presents a summary of analytical. Laboratory Certificate of Analysis is located in Appendix B.



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Incident ID: NRM2012859198 AEP #: 03302020-0636-prodops

2. Remedial Activities

Characterization sampling identified chloride and hydrocarbons as the constituents of concern. Therefore, we relied on electrical conductivity for field monitoring of chloride concentrations to direct real-time excavation.

Electrical conductivity (EC) was used to direct excavation extents. An EC <0.20 mS/cm correlates with a chloride concentration <600 mg/kg (R^2 =0.957). If EC<0.20 mS/cm in the upper 4-feet bps, excavation at the location of interest ceased. If EC>0.20 mS/cm excavation continued horizontally or to a vertical depth of approximately 4.1-feet bps.

After EC monitoring during excavation activities, 5-point composite confirmation samples were collected. Composite samples did not represent an area greater than 200 ft² for the walls and 1,200 ft² for the bases. Five-point composite sample points were evenly spaced within each sample grid to obtain a representative sample of the area (Figure 1, below).

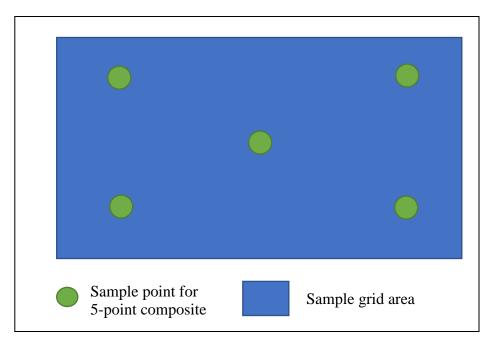


Figure 1: Example of 5-point sample grid for base composite sampling.

- Plate 11 shows the base sample grid depths.
- Plate 12 shows base sample grid with chloride concentrations.
- Plate 13 shows the wall sampling diagram.

As shown on Plate 11 and 12, remediation activities extended past the observed March 30, 2020 release extent.



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Incident ID: NRM2012859198 AEP #: 03302020-0636-prodops

As presented in Table 1, all samples meet the Closure Criteria as defined in Table 1 of 19.15.29 NMAC as follows:

- For remediated areas <u>off-site</u> (<u>north of the production pad</u>) where depth to water is >100 ft
 - ➤ Upper 4-feet
 - Chloride < 600 mg/kg
 - TPH (GRO + DRO + MRO) < 100 mg/kg
 - BTEX < 50 mg/kg
 - Benzene < 10 mg/kg
 - ➤ Below 4-feet
 - Chloride < 20,000 mg/kg
 - TPH (GRO + DRO + MRO) < 2,500 mg/kg
 - TPH (GRO + DRO) < 1,000 mg/kg
 - BTEX < 50 mg/kg
 - Benzene < 10 mg/kg
- For remediated areas <u>in-use and on the active production pad</u> where depth to water is >100 ft
 - ightharpoonup Chloride < 20,000 mg/kg
 - ightharpoonup TPH (GRO + DRO + MRO) < 2,500 mg/kg
 - ➤ TPH (GRO + DRO) < 1,000 mg/kg
 - ightharpoonup BTEX < 50 mg/kg
 - ➤ Benzene < 10 mg/kg



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Incident ID: NRM2012859198 AEP #: 03302020-0636-prodops

Remediated areas were backfilled with clean non-waste containing material and restored to conditions prior to the release. Approximately 11,200 cubic feet of soil was remediated and hauled offsite for proper disposal.

The remediated area north of the production pad that is off-site and is an active pipeline right-of-way has been remediated, restored, and reclaimed per 19.15.29.13.D NMAC. When the active production site is no longer in use for oil and gas operations, the surface shall be remediated, restored, and reclaimed per 19.15.29.13.D

Please contact me with any questions at 970-570-9535.

Sincerely,

Advance Energy Partners Hat Mesa, LLC

Andrew Parker Env. Scientist

Copy: Braden Harris; Advance Energy Partners Hat Mesa, LLC

Surface Owner; Merchant Livestock

Photos





Photo 1: Photo viewing east along the north production pad wall. Area to the left (north) of the north production pad wall was remediate as off-site use along a pipeline right-of-way. The off-site area was excavated to a depth of 5-feet (or 1-foot below relative production pad surface).



Photo 2: Photo viewing southeast from the north production pad wall. Excavation depth is an average 4.2-feet below production pad surface (8.2 feet below natural grade surface).



Photo 3: Photo viewing southeast from northwest corner of remediation area. Production pad surface is being restored to conditions prior to the release.

Tables



Table 1 Advance Energy Partners
Summary of Anayltical MSU 551H Remediation

Sample ID	Date	Area (Wall/Base)	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	EC (field) dS/m	Chloride (PPM)	GRO+DRO (PPM)	TPH Ext. (PPM)	Benzene (PPM)	BTEX (PPM)	Comments
NMOCD Closure Criteria			default = bps	default = bps	default = bps							
0 - 4 feet & "not in-use"							600		2,500	10	50	
> 4 ft or "in-use"							20,000	1,000	2,500	10	50	
HA-01	3/30/2020	Discrete	0 bps				2,880	98230	98725	<0.2	16.3	Characterization/Removed
HA-01	3/30/2020	Discrete	1 bps			0.54	554	8568	<8578	<0.05	16.4	Characterization/Removed
HA-01	3/30/2020	Discrete	2 bps			1.14	1,200	<233	<243	<0.05	<0.3	Characterization/Removed
HA-02	3/30/2020	Discrete	0 bps				36,000	27302	31232	<0.05	14.7	Characterization/Removed
HA-02	3/30/2020	Discrete	1 bps			1.01	2,440	<74.6	<84.6	<0.05	<0.3	Characterization/Removed
HA-02	3/30/2020	Discrete	2 bps			0.22	192	<20	<30	<0.05	<0.3	Characterization/Removed
HA-03	3/30/2020	Discrete	0 bps				20,000	33630	38200	2.71	121	Characterization/Removed
HA-03	3/30/2020	Discrete	1 bps			1.47	3,120	<1190	<1214.1	<0.05	0.321	Characterization/Removed
HA-03	3/30/2020	Discrete	2 bps			0.97	1,360	<296	<307.8	<0.05	<0.3	Characterization/Removed
W-01	5/8/2020	Wall		+ 4 aps	0 bps	0.11	16	<20	<30	<0.05	<0.3	Off-Site
W-01	5/8/2020	Wall		0 bps	1 bps (5 bngs)	0.16	64					Off-Site
W-02	5/8/2020	Wall		+ 4 aps	0 bps	0.21	96	<20	<30	<0.05	<0.3	Off-Site
W-03	5/8/2020	Wall		+ 4 aps	0 bps	0.35	256	<20	<30	<0.05	<0.3	Off-Site
W-04	5/8/2020	Wall		+ 4 aps	0 bps	0.34	240	<20	<30	<0.05	<0.3	Off-Site
W-05	5/8/2020	Wall		0 bps (4 bngs)	4 bps (8 bngs)	1.07	912	<20	<30	<0.05	<0.3	Off-Site
W-06	5/8/2020	Wall		0 bps (4 bngs)	4 bps (8 bngs)	13.07	29,200	<20	<30	<0.05	<0.3	Removed
W-06 +2 ft N	6/2/2020	Wall		0 bps (4 bngs)	4 bps (8 bngs)	0.38	304	<20	<30	<0.05	<0.3	Off-Site
W-07	5/8/2020	Wall		+4 aps	0 bps (4 bngs)	0.47	352					Off-Site
W-07	5/8/2020	Wall		0 bps (4 bngs)	4 bps (8 bngs)	14.13	24,400	<20	<30	<0.05	<0.3	Removed
W-07 +2 ft N	6/2/2020			0 bps (4 bngs)	4 bps (8 bngs)	0.21	160	<20	<30	<0.05	<0.3	Off-Site
W-07	5/20/2020	Wall	4.5 bps (8.5 bngs)	0.000 (1.01.80)	1 10/10 (0 101/80)	0.11	80					Off-Site
W-08	5/8/2020	Wall	110 10 10 10 10 10 10 10 10 10 10 10 10	+4 aps	0 bps (4 bngs)	0.07	32	<20	<30	<0.05	<0.3	Off-Site
W-08	5/8/2020	Wall		0 bps (4 bngs)	4 bps (8 bngs)	14.02	26,000	<20	<30	<0.05	<0.3	Removed
W-08 +2 ft N	6/2/2020	Wall		0 bps (4 bngs)	4 bps (8 bngs)	0.10	32	<20	<30	<0.05	<0.3	Off-Site
W-09	5/9/2020	Wall		+4 aps	0 bps (4 bngs)	0.10	32	<20	<30	<0.05	<0.3	Off-Site
W-09	5/9/2020			0 bps (4 bngs)		7.21	8,000					Removed
W-09	5/20/2020	Wall		0 bps (4 bngs)	4 bps (8 bngs)	7.22	2,600					Off-Site
W-09	5/20/2020		4.5 bps (8.5 bngs)	0 spc (: s.:.gc)	1 500 (0 51.80)	0.24	176					Off-Site
W-10	5/9/2020	Wall	110 10 10 10 10 10 10 10 10 10 10 10 10	+4 aps	0 bps (4 bngs)	0.04	<16	<20	<30	<0.05	<0.3	Off-Site
W-10	5/9/2020	Wall		0 bps (4 bngs)	4 bps (8 bngs)	5.80	6,930	<20	<30	<0.05	<0.3	Removed
W-10 +2 ft N	6/2/2020	Wall		0 (4 fbgs)	4 (8 fbgs)	2.01	2,080	<20	<30	<0.05	<0.3	Off-Site
W-10	5/21/2020	Wall	4.5 bps (8.5 bngs)	() ()	(0.1080)	0.16	144					Off-Site
W-11	5/9/2020		110 10 10 10 10 10 10 10 10 10 10 10 10	+4 aps	0 bps (4 bngs)	0.20	96	<20	<30	<0.05	<0.3	Off-Site
W-12	5/9/2020	Wall		+4 aps	0 bps (4 bngs)	0.15	48	<20	<30	<0.05	<0.3	Off-Site
W-13	5/9/2020	Wall		0 bps (4 bngs)	4 bps (8 bngs)	3.86	26,400	120	1,50	10.03	10.0	Removed
W-13 +2 ft N	6/2/2020	Wall		0.1 bps (4.1 bngs)	4 bps (8 bngs)	0.64	1,180	<20	<30	<0.05	<0.3	Off-Site
W-14	5/9/2020	Wall		0 (4 fbgs)	4 (8 fbgs)	1.08	736	<77.2	<87.2	<0.05	<0.3	Off-Site
W-15	5/11/2020			+4 aps	0 bps (4 bngs)	0.24	112	<20	<30	<0.05	<0.3	Off-Site
W-15	5/9/2020	Wall		0 bps (4 bngs)	1.5 bps (5.5 bngs)	0.23	160	<20	<30	<0.05	<0.3	Off-Site
W-16	5/11/2020	Wall		+4 aps	0 bps (4 bngs)	0.09	48	<20	<30	<0.05	<0.3	Off-Site
W-16	5/11/2020			0 bps (4 bngs)	2.5 bps (6.5 bngs)	0.13	400	<20	<30	<0.05	<0.3	Off-Site
W-17	5/11/2020			+4 aps	0 bps (4 bngs)	0.09	48	`~20	,50	10.00	.0.5	Off-Site
W-17	5/11/2020			0 bps (4 bngs)	4 bps (8 bngs)	0.03	288	<20	<30	<0.05	<0.3	Off-Site
W-18	5/12/2020	Wall		+4 aps	0 bps (4 bngs)	0.09	32	`~20	,50	10.03	,0.5	Off-Site
W-18	5/11/2020	Wall		0 bps (4 bngs)	4 bps (8 bngs)	0.51	416	<20	<30	<0.05	<0.3	Off-Site
W-19	5/21/2020	Wall		+4 aps	0 bps (4 bngs)	0.19	32	`~20	130	10.03	,0.5	Off-Site

04/04/2021Table 1Advance Energy PartnersSummary of AnaylticalMSU 551H Remediation

Sample ID	Date	Area	Discrete Depth	Top Depth	Bottom Depth	EC (field)	Chloride	GRO+DRO				Comments
		(Wall/Base)	(Feet)	(Feet)	(Feet)	dS/m	(PPM)	(PPM)	(PPM)	(PPM)	(PPM)	
NMOCD Closure Criteria			default = bps	default = bps	default = bps		500		2.500	10		
0 - 4 feet & "not in-use"							600		2,500	10	50	
> 4 ft or "in-use"	= /10/2020	347 11					20,000	1,000	2,500	10	50	255 211
W-19	5/12/2020	Wall		0 bps (4 bngs)	4 bps (8 bngs)	0.23	64	<20	<30	<0.05	<0.3	Off-Site
W-20	5/12/2020	Wall		0.0	3.0	0.57	272	<23.8	<33.8	<0.05	<0.3	On-Site
W-21	5/12/2020	Wall	4.0	0.0	1.0	1.71	1,470	<20	<30	<0.05	<0.3	Removed
W-21 North	5/22/2020	Wall	1.0			0.99						Removed
W-21 N-S	5/22/2020	Wall	1.0			0.16						Removed
W-21 S-N	5/22/2020	Wall	1.0			9.0/4.3/1.5						Removed
W-21 South	5/22/2020	Wall	1.0			2.46						Removed
W-21 S	5/22/2020	Wall	2.0			2.10						Removed
W-21	6/3/2020	Wall		0.0	2.5	0.39	480	<20	<30	<0.05	<0.3	On-Site
W-22	5/12/2020	Wall		0.0	2.0	1.80	1,380					On-Site
W-23	5/12/2020	Wall		0.0	2.0	1.47	1,040	<43.1	<53.1	<0.05	<0.3	On-Site
W-24	5/12/2020	Wall		0.0	2.5	1.12	688					On-Site
W-24 Caliche pad	5/22/2020	Wall	0.5			1.79						On-Site
W-24 Resample	5/28/2020	Wall		0.0	1.0	2.01	1,600	<20	<30	<0.05	<0.3	On-Site
W-24 Resample	5/28/2020	Wall		1.0	2.0	0.17	96	<20	<30	<0.05	<0.3	On-Site
W-25	5/12/2020	Wall		0.0	4.0	4.11	2,800	<20	<30	<0.05	<0.3	On-Site
W-27	5/25/2020	Wall		0.0	1.0	0.34	304	<33.4	<43.4	<0.05	<0.3	On-Site
W-28	6/4/2020	Wall		2.0	4.0	0.16	64	<20	<30	<0.05	<0.3	On-Site
W-29	6/4/2020	Wall		0.0	4.0	1.46	1,220	<69.4	<79.4	<0.05	<0.3	On-Site
W-30	6/4/2020	Wall		0.0	2.0	2.57	2,240	<528	<670	<0.05	<0.3	Removed
W-30 South	5/25/2020	Wall	1.0			2.06						Removed
W-30 S-N	5/25/2020	Wall	1.0			1.06						Removed
W-30 N-S	5/25/2020	Wall	1.0			0.42						Removed
W-30 North	5/25/2020	Wall	1.0			0.68						Removed
W-31	5/25/2020	Wall		1.0	4.0	0.34	656	<20	<30	<0.05	<0.3	Removed
W-31	6/4/2020	4		2.0	4.0	0.10	128	<20	<30	<0.05	<0.3	On-Site
W-32	6/5/2020	1		0.0	4.0	0.28	336	<20	<30	<0.05	<0.3	On-Site
W-33	5/25/2020	Wall		0.0	4.0	0.11	48	<20	<30	<0.05	<0.3	On-Site
W-34	5/25/2020			0.0	1.0	0.23	112					On-Site
W-35	5/25/2020			1.0	4.0	0.10	32	<20	<30	<0.05	<0.3	On-Site
W-36	5/27/2020			0.0	2.5	1.98	4,400	<20	<30	<0.05	<0.3	On-Site
W-36	5/27/2020		3.0			0.09	208					On-Site
W-37	6/4/2020	Wall		0.0	4.0	1.46	1,710	<20.4	<30.4	<0.05	<0.3	On-Site
W-37	5/27/2020		2.0			0.61	403					On-Site
W-38	5/27/2020	Wall		0.0	2.0	2.67	1,600		_			On-Site
W-39	5/27/2020			0.0	3.0		4,000	<20	<30	<0.05	<0.3	On-Site
W-39	5/27/2020		4.0			0.24	320					On-Site
W-40	5/27/2020	Wall		0.0	1.0	2.12	2,480	<61.2	<71.2	<0.05	<0.3	Removed
W-41	6/3/2020			0.0	2.0	1.69	1140	<20	<30	<0.05	<0.3	On-Site
W-42	6/4/2020	Wall		0.0	4.0	0.47	192	<94.1	<104.1	<0.05	<0.3	On-Site
W-43	6/4/2020	Wall		0.0	1.5	0.64	544	<20	<30	<0.05	<0.3	On-Site
W-201	7/29/2020			0.0	4.0	2.57	1,940	<369	<453.4	<0.05	<0.3	On-Site
W-202	7/29/2020	Wall		0.0	4.0	0.23	192	<20	<30	<0.05	<0.3	On-Site
W-203	7/29/2020			0.0	4.0	2.47	1,180	<63	<73	<0.05	<0.3	On-Site
W-204	7/29/2020	Wall		0.0	1.5	0.51	272	<78.1	<89.9	<0.05	<0.3	On-Site
W-205	7/29/2020	Wall		0.0	1.0	0.39	224	<156	<166	<0.05	<0.3	On-Site

04/04/2021

Table 1 Summary of Anayltical

Sample ID	Date	Area (Wall/Base)	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	EC (field) dS/m	Chloride (PPM)	GRO+DRO (PPM)	TPH Ext. (PPM)	Benzene (PPM)	BTEX (PPM)	Comments
NMOCD Closure Criteria			default = bps	default = bps	default = bps							
0 - 4 feet & "not in-use"							600		2,500	10	50	
> 4 ft or "in-use"							20,000	1,000	2,500	10	50	
W-206	7/29/2020	Wall		1.0	2.0	1.57	1,280	<20	<30	<0.05	<0.3	Removed
W-206 W.	8/3/2020	Wall		1.0	2.0	0.10	64	<20	<30	<0.05	<0.3	On-Site
W-206 S.	8/3/2020	Wall		1.0	2.0	0.08	16	<20	<30	<0.05	<0.3	On-Site
W-206 E.	8/3/2020	Wall		1.0	2.0	0.97	1,390	<20	<30	<0.05	<0.3	Removed
W-210	7/29/2020	Wall		0.0	2.0	0.84	592	<139	<149	<0.05	<0.3	Removed
W-210 North	9/1/2020	Wall		0.0	4.0		48	<20	<30	<0.05		On-Site
W-210 East	9/1/2020	Wall		0.0	4.0		272	<20	<30	<0.05		On-Site
W-210 South	9/1/2020	Wall		0.0	4.0		576	<20	<30	<0.05		On-Site
W-211	7/30/2020	Wall		2.0	4.0	2.00	1,460	<20	<30	<0.05	<0.3	Removed
W-213	7/30/2020	Wall		0.0	2.0	0.89	688	<20	<30	<0.05	<0.3	On-Site
B-01	5/25/2020	Base	1.0			0.12	80	<20	<30	<0.05	<0.3	On-Site
B-02	5/25/2020	Base	1.0			0.07	16	<20	<30	<0.05	<0.3	On-Site
B-03	5/25/2020	Base	4.2			0.10	32					On-Site
B-04	5/25/2020	Base	4.2			0.10	80	<20	<30	<0.05	<0.3	On-Site
B-05	5/25/2020	Base	4.2			0.15	32					On-Site
B-06	5/25/2020	Base	4.2			0.09	64	<20	<30	<0.05	<0.3	On-Site
B-07	6/4/2020	Base	1 bps (5 bngs)			1.56	1,660	<20	<30	<0.05	<0.3	Off-Site
B-08 E	5/25/2020	Base	0.1 bps (4.1 bngs)			0.38	272					Off-Site
B-08 W	5/25/2020	Base	0.1 bps (4.1 bngs)			1.10	960	<20	<30	<0.05	<0.3	Off-Site
B-09	6/3/2020	Base	2.5				16	<20	<30	<0.05	<0.3	On-Site
B-10	5/25/2020	Base	2.5			0.14	80	<20	<30	<0.05	<0.3	On-Site
B-11	5/26/2020	Base	1.5			0.08	32					On-Site
B-12	5/26/2020	Base	1.5			0.40	624	<20	<30	<0.05	<0.3	Removed
B-12	6/3/2020	Base	3.0			0.09	48	<20	<30	<0.05	<0.3	On-Site
B-13	5/26/2020	Base	1.5			3.25	3,080	<353	<363	<0.05	<0.3	Removed
B-13	6/3/2020	Base	4.2			0.10	64	<20	<30	<0.05	<0.3	On-Site
B-14	5/26/2020		4.3			0.77	448					On-Site
B-15	5/26/2020	Base	4.3			0.16	64	<20	<30	<0.05	<0.3	On-Site
B-16	5/26/2020	Base	4.3			1.21	1,010	<20	<30	<0.05	<0.3	On-Site
B-17	5/26/2020	Base	4.3			0.35	240	<20	<30	<0.05	<0.3	On-Site
B-18 Cl	5/26/2020	Base	4.3			9.11	15,600					Removed
B-18	5/26/2020	Base	4.3			0.29	304*	<20	<30	<0.05	<0.3	Removed
B-18	6/5/2020	Base	5.5			0.20	208	<20	<30	<0.05	<0.3	On-Site
B-19 Cl	5/26/2020	Base	4.3			>20	25800					Removed
B-19	5/26/2020	Base	4.3			7.59	8660*					Removed
B-19	6/5/2020	Base	5.5			0.10	32	<20	<30	<0.05	<0.3	On-Site
B-20	5/26/2020		4.2			0.22	240	<25.3	<35.3	<0.05	<0.3	On-Site

Sample ID	Date	Area (Wall/Base)	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	EC (field) dS/m	Chloride (PPM)	GRO+DRO (PPM)	TPH Ext. (PPM)	Benzene (PPM)	BTEX (PPM)	Comments
NMOCD Closure Criteria			default = bps	default = bps	default = bps							
0 - 4 feet & "not in-use"							600		2,500	10	50	
> 4 ft or "in-use"							20,000	1,000	2,500	10	50	
B-21 Cl	5/26/2020	Base	4.2			13.40	13800					Removed
B-21	5/26/2020	Base	4.2			1.46	1500*					Removed
B-21	6/5/2020	Base	5.5			0.29	176	<20	<30	<0.05	<0.3	On-Site
B-22 Cl	5/26/2020	Base	4.2			6.84	13600					Removed
B-22	5/26/2020		4.2			0.29	160*	<20	<30	<0.05	<0.3	Removed
B-22	6/4/2020	Base	5.5			0.13	112	<20	<30	<0.05	<0.3	On-Site
B-23	5/26/2020	Base	4.2			0.34	240	<20	<30	<0.05	<0.3	On-Site
B-24 E	5/26/2020	Base	0.1 bps (4.1 bngs)			3.06	7,120	<20	<30	<0.05	<0.3	Off-Site
B-24 W	5/26/2020	Base	0.1 bps (4.1 bngs)			0.67	1,310					Off-Site
B-25	5/26/2020	Base	1 bps (5 bngs)			6.51	10,400	<20	<30	<0.05	<0.3	Removed
B-25	6/3/2020	Base	1.5 bps (5.5 bngs)			2.56	2,600	<20	<30	<0.05	<0.3	Off-Site
B-26 Cl	5/26/2020	Base	2.5			0.68	752					Removed
B-26	5/26/2020	Base	2.5			0.11	32					Removed
B-26	6/4/2020	Base	3.0			0.13	224	<23.2	<33.2	<0.05	<0.3	On-Site
B-27	5/26/2020	Base	3.0			0.13	48	<20	<30	<0.05	<0.3	On-Site
B-28	5/26/2020	Base	4.2			0.85	624					On-Site
B-29	5/26/2020	Base	4.2			0.34	144	<91	<101	<0.05	<0.3	On-Site
B-30	5/26/2020	Base	4.2			0.11	112	<20	<30	<0.05	<0.3	On-Site
B-31	5/26/2020	Base	4.2			0.44	256	<52.4	<62.4	<0.05	<0.3	On-Site
B-32	5/26/2020	Base	2.5			0.42	624					Removed
B-32	6/3/2020	Base	3.0			0.12	48	<20	<30	<0.05	<0.3	On-Site
B-33	5/26/2020	Base	3.0			0.08	48	<105.3	<115.3	<0.05	<0.3	On-Site
B-34	5/26/2020	Base	1.5			1.04	688	<53.4	<63.4	<0.05	<0.3	Removed
B-34	6/3/2020	Base	3.0			0.21	176	<20	<30	<0.05	<0.3	On-Site
B-35	5/26/2020	Base	2.0			1.26	1,180	<112	<128.7	<0.05	<0.3	Removed
B-35	6/3/2020	Base	3.0			0.18	144	<20	<30	<0.05	<0.3	On-Site

Advance Energy Partners

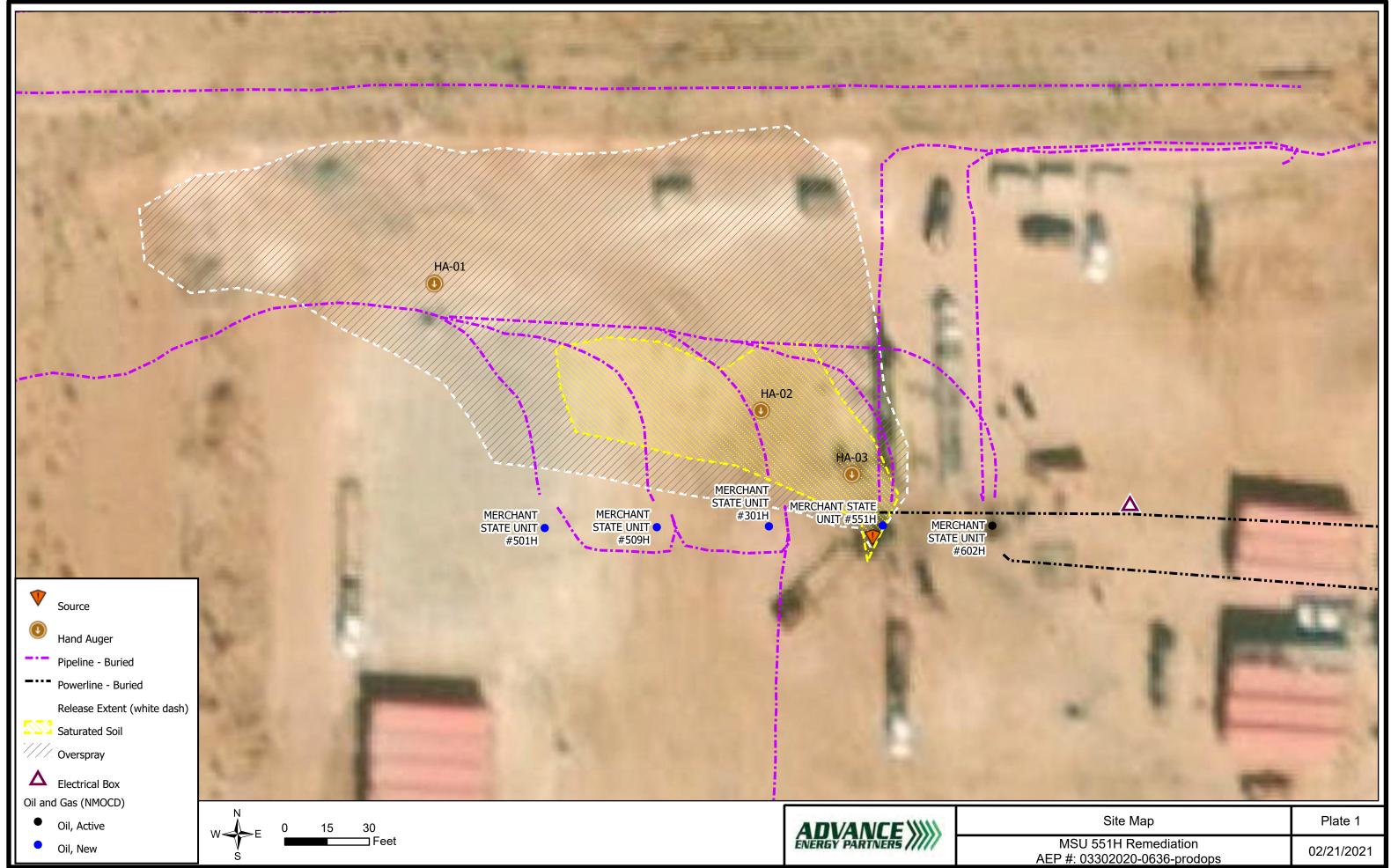
MSU 551H Remediation

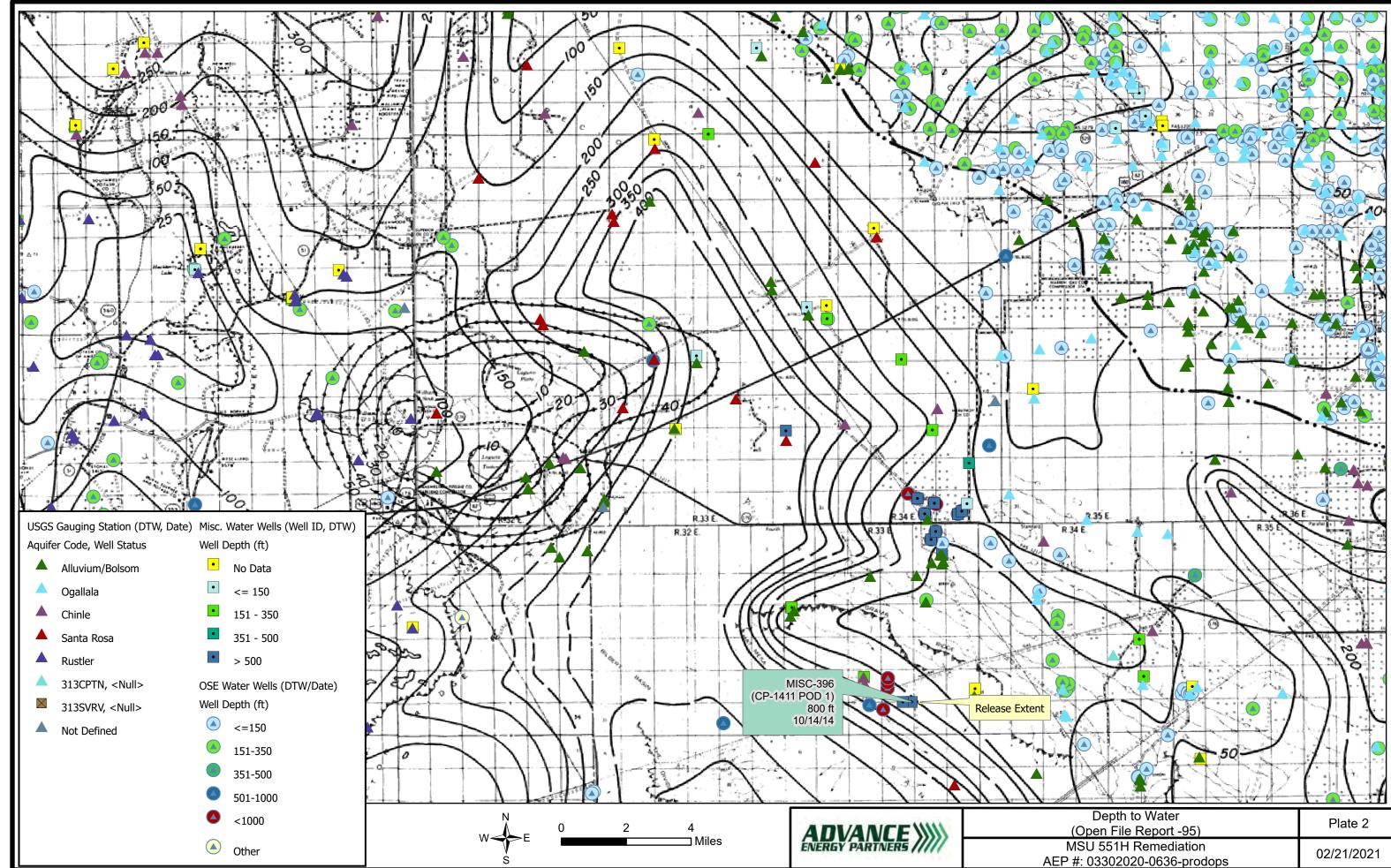
Table 1 Advance Energy Partners
Summary of Anayltical MSU 551H Remediation

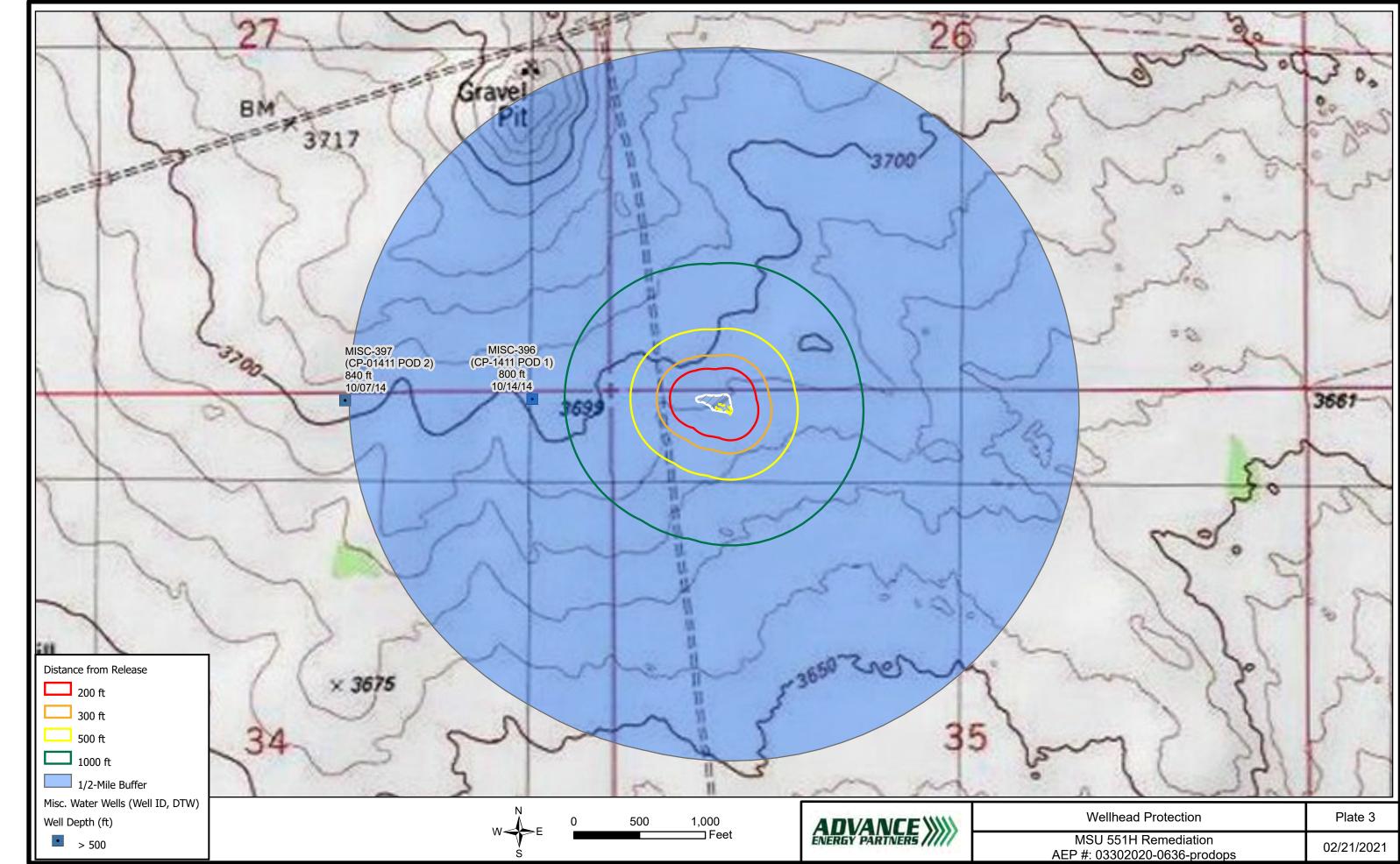
Sample ID	Date	Area (Wall/Base)	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	EC (field) dS/m	Chloride (PPM)	GRO+DRO (PPM)	TPH Ext. (PPM)	Benzene (PPM)	BTEX (PPM)	Comments
IMOCD Closure Criteria			default = bps	default = bps	default = bps							
0 - 4 feet & "not in-use"							600		2,500	10	50	
> 4 ft or "in-use"							20,000	1,000	2,500	10	50	
-36	5/26/2020	Base	2.0			0.84	576					On-Site
-37	5/26/2020	Base	2.0			0.98	496	<80.4	<90.4	<0.05	<0.3	On-Site
-38	5/26/2020	Base	2.0			0.45	288	<43.1	<53.1	<0.05	<0.3	On-Site
-39	5/27/2020	Base	4.2			0.39	576	<20	<30	<0.05	<0.3	On-Site
-40	5/27/2020	Base	3.0			0.20	272					On-Site
-41	5/27/2020	Base	3.0			0.09	80					On-Site
-42	5/27/2020	Base	2.5			0.33	496	<20	<30	<0.05	<0.3	On-Site
-43	5/27/2020	Base	2.5			0.34	784					Removed
-43	6/2/2020	Base	3.0			0.25	272	<20	<30	<0.05	<0.3	On-Site
-44	5/27/2020	Base	3.0			0.23	240					On-Site
-45	5/27/2020	Base	4.2			0.42	928	<20	<30	<0.05	<0.3	On-Site
-46	5/27/2020	Base	4.2			1.05	2,600	<20	<30	<0.05	<0.3	On-Site
-47	5/27/2020	Base	4.2			0.35	240					On-Site
-48	5/28/2020	Base	2.0			0.55	960	<20	<30	<0.05	<0.3	On-Site
-49	5/28/2020	Base	2.0			0.08	32	<20	<30	<0.05	<0.3	On-Site
-50	5/28/2020	Base	4.1			1.10	1,220	<20	<30	<0.05	<0.3	On-Site
-51	5/28/2020	Base	3.0			0.10	80	<20	<30	<0.05	<0.3	On-Site
52	5/28/2020	Base	4.2			0.19	64					On-Site
-53	5/28/2020	Base	4.2			0.61	832	<20	<30	<0.05	<0.3	On-Site
-54	5/28/2020	Base	4.2			3.55	4160*	<20	<30	<0.05	<0.3	Removed
-54 NW	5/28/2020	Base	4.2			8.07	11,900					Removed
-54 S .75	5/28/2020	Base	4.2			0.34	272	<20	<30	<0.05	<0.3	Removed
-54	6/4/2020	Base	5.5			0.17	80	<20	<30	<0.05	<0.3	On-Site
-56	5/28/2020	Base	1.0			0.74	608	<20	<30	<0.05	<0.3	Removed
-56 E .75	5/28/2020	Base	1.0			0.74						Removed
-56 SW	5/28/2020	Base	1.0			0.67						Removed
-55	5/28/2020	Base	4.2			0.51	592					On-Site
-56	6/3/2020	Base	2.0			0.12	128	<20	<30	<0.05	<0.3	On-Site
-57	5/28/2020	Base	1.0			0.80	464					Removed
-57	6/4/2020	Base	2.0			0.13	80	<20	<30	<0.05	<0.3	On-Site
-58	6/2/2020	Base	4.2			0.13	128	<20	<30	<0.05	<0.3	On-Site
-59	6/2/2020	Base	4.2			0.19	144	<20	<30	<0.05	<0.3	On-Site
-60	6/3/2020	Base	3.0			0.13	64	<20	<30	<0.05	<0.3	On-Site
-201	7/28/2020	Base	4.2			0.13	96	<20	<30	<0.05	<0.3	On-Site
-202	7/28/2020	Base	4.2			0.10	32	<20	<30	<0.05	<0.3	On-Site
-203	7/28/2020	Base	2.0			0.25	256	<20	<30	<0.05	<0.3	On-Site
-204	7/28/2020	Base	1.5			0.23	240	<20	<30	<0.05	<0.3	On-Site
205	7/28/2020	Base	1.5			0.13	64	<20	<30	<0.05	<0.3	On-Site
-206	7/28/2020	Base	1.0			0.14	48	<20	<30	<0.05	<0.3	On-Site
-207	7/28/2020	Base	1.0			0.23	208	<41.6	<51.6	<0.05	<0.3	On-Site
-208	7/30/2020	Base	4.2			0.28	256	<20	<30	<0.05	<0.3	On-Site
-208 Trench	7/30/2020	Base	7.0			0.14	64	<20	<30	<0.05	<0.3	On-Site
-209	7/30/2020	Base	2.0			0.42	176	<20	<30	<0.05	<0.3	On-Site
ackfill 1 E	5/28/2020	Composite					64	<20	<30	<0.05	<0.3	Backfill Stockpile
ackfill 1 W	5/28/2020	Compoiste					16	<20	<30	<0.05	<0.3	Backfill Stockpile

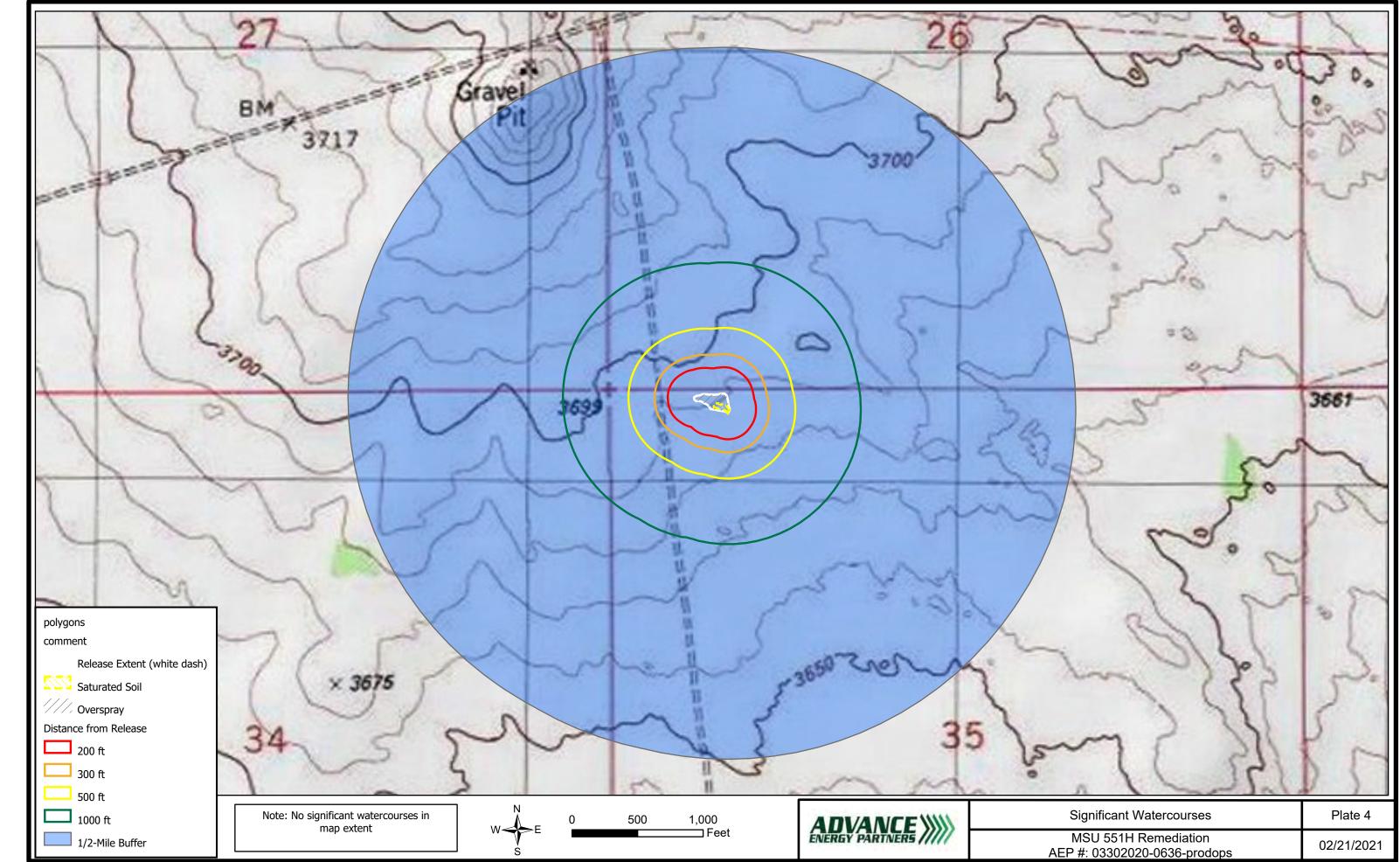
Plates

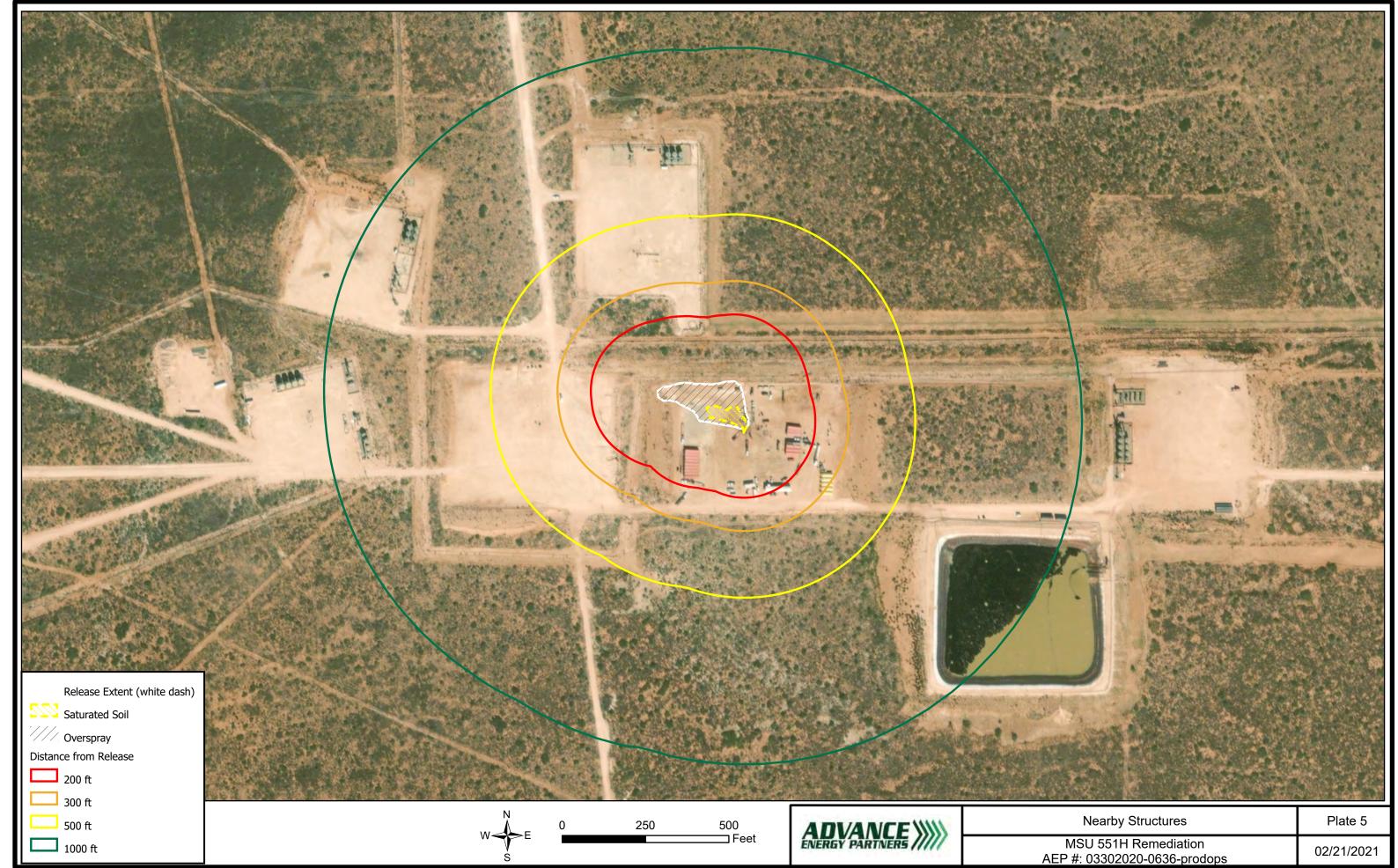


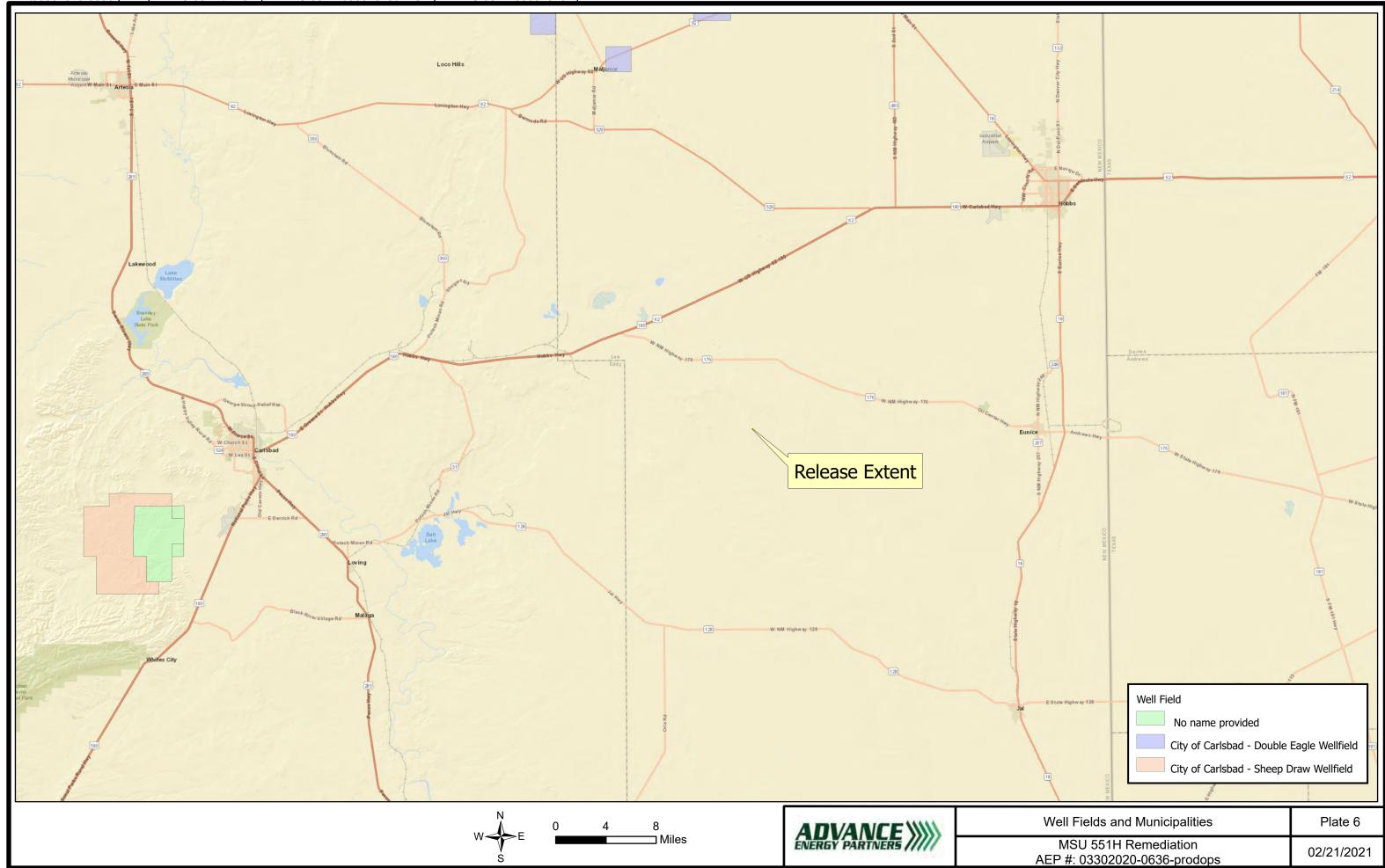


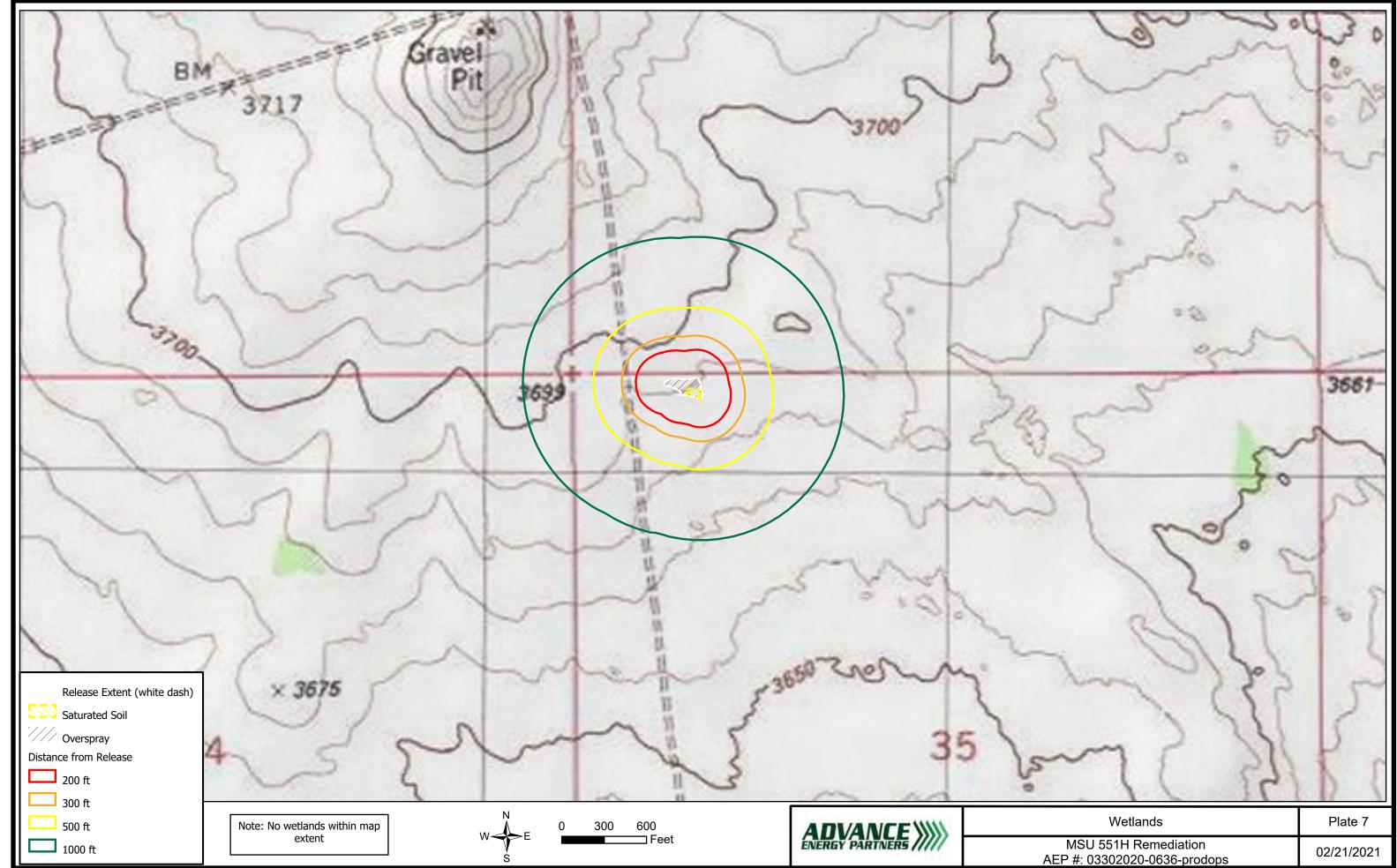


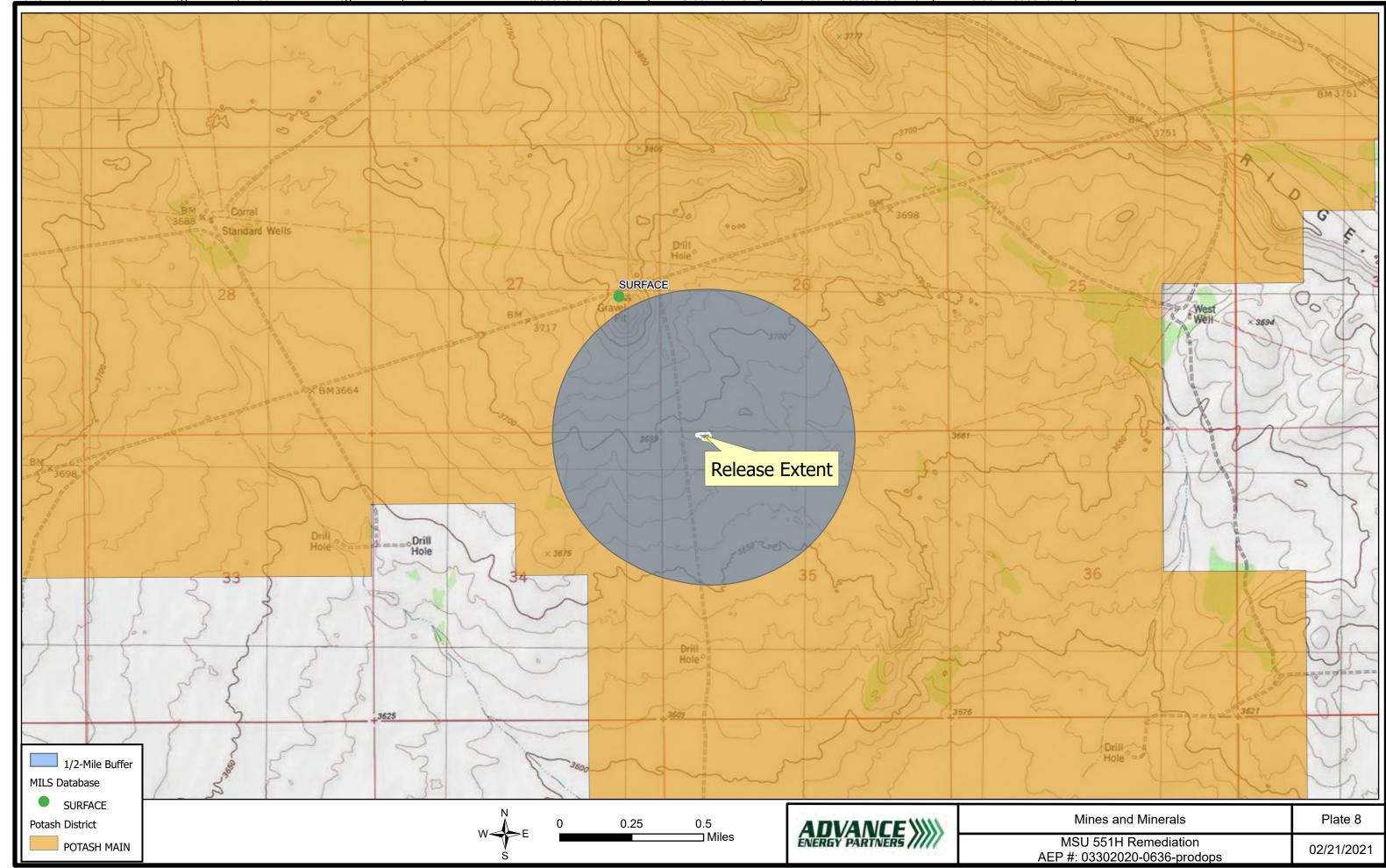


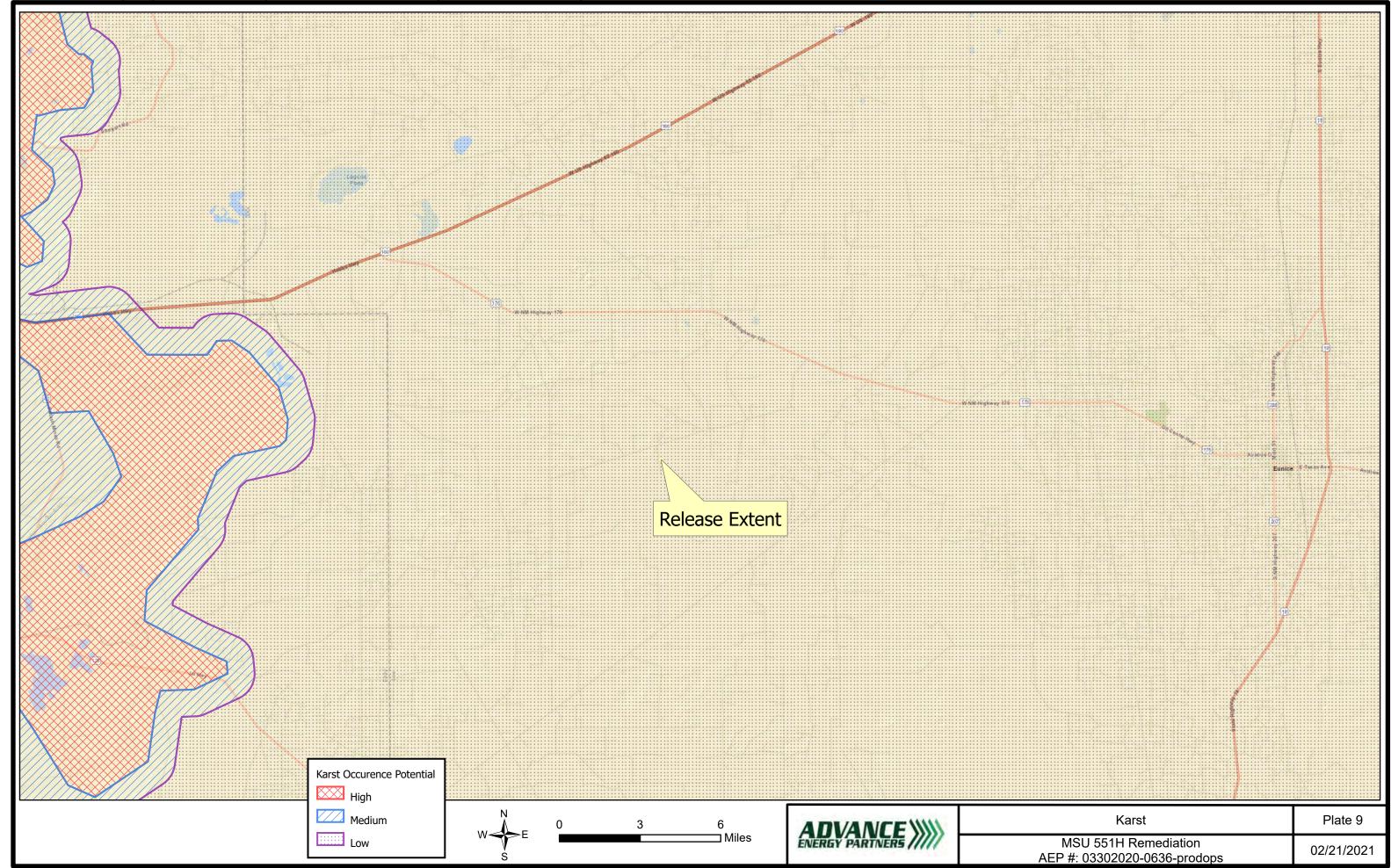


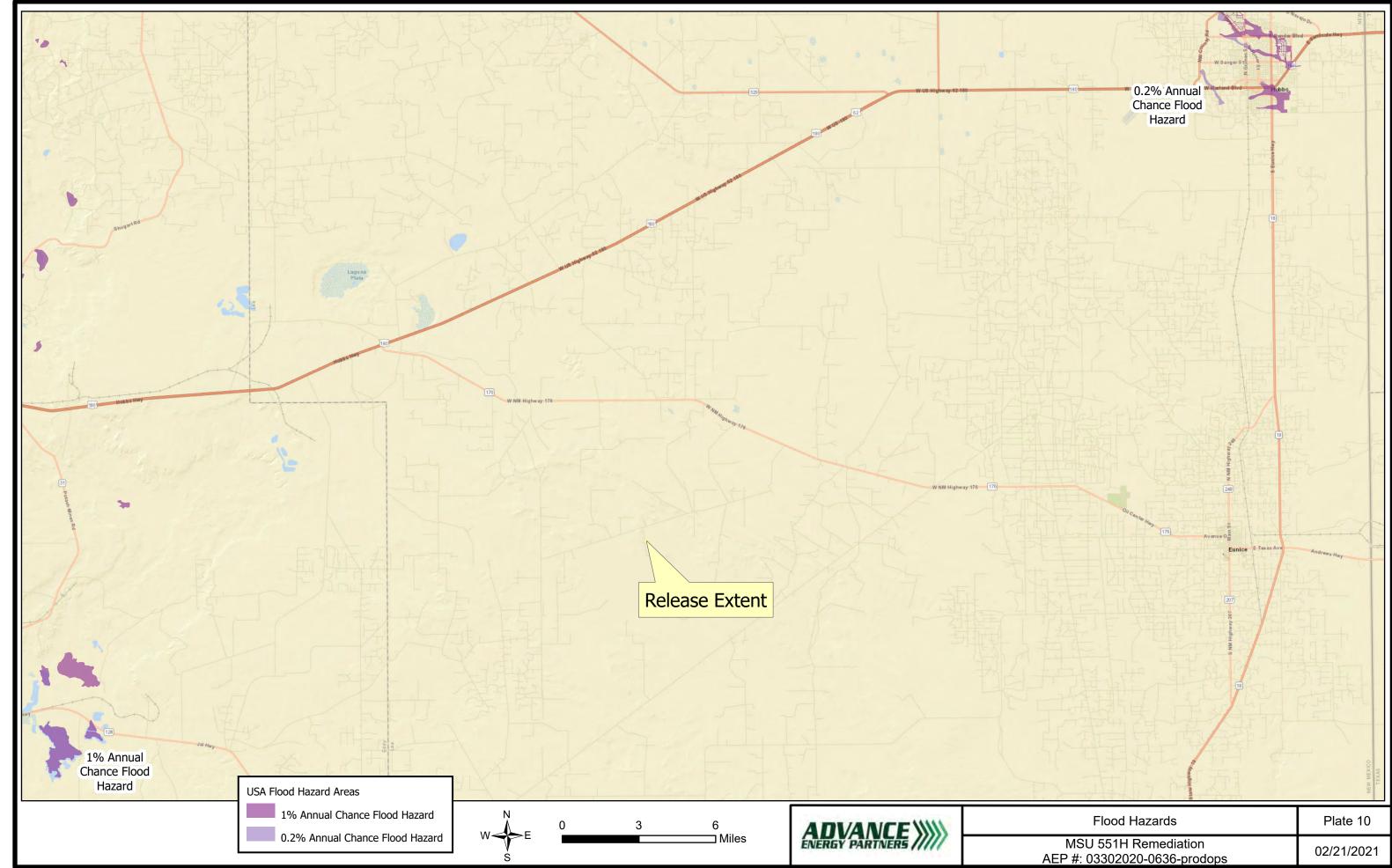


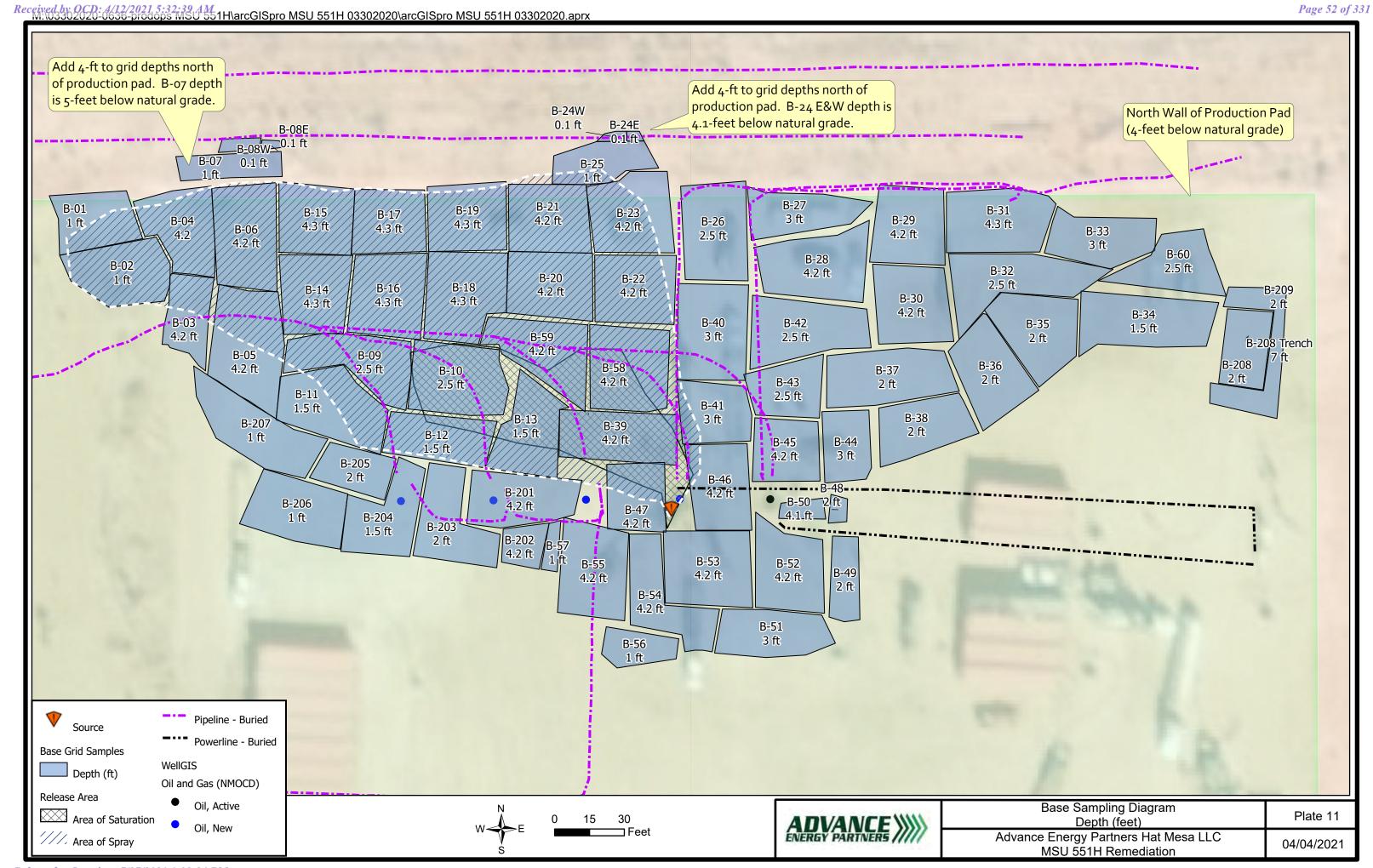


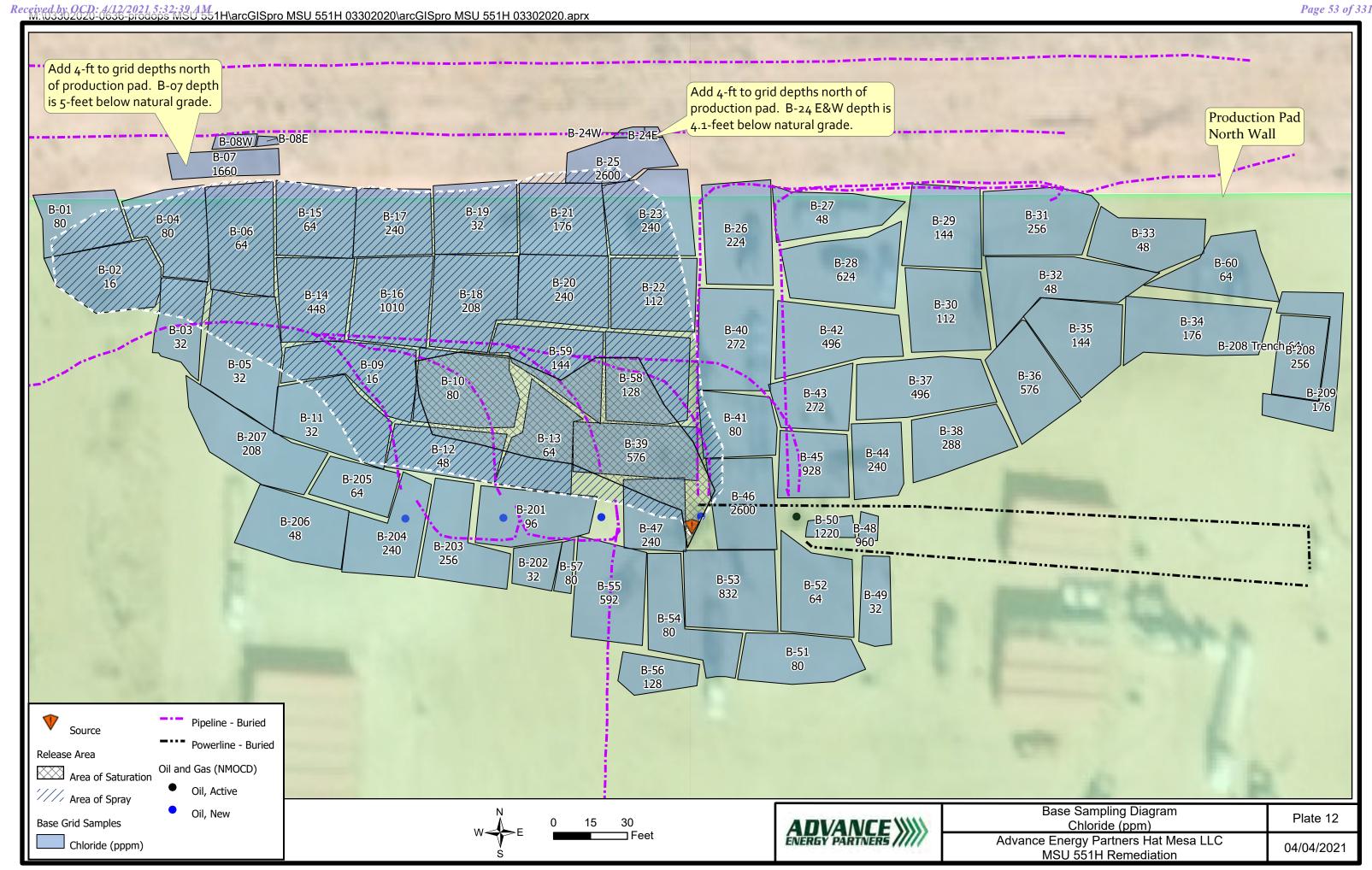


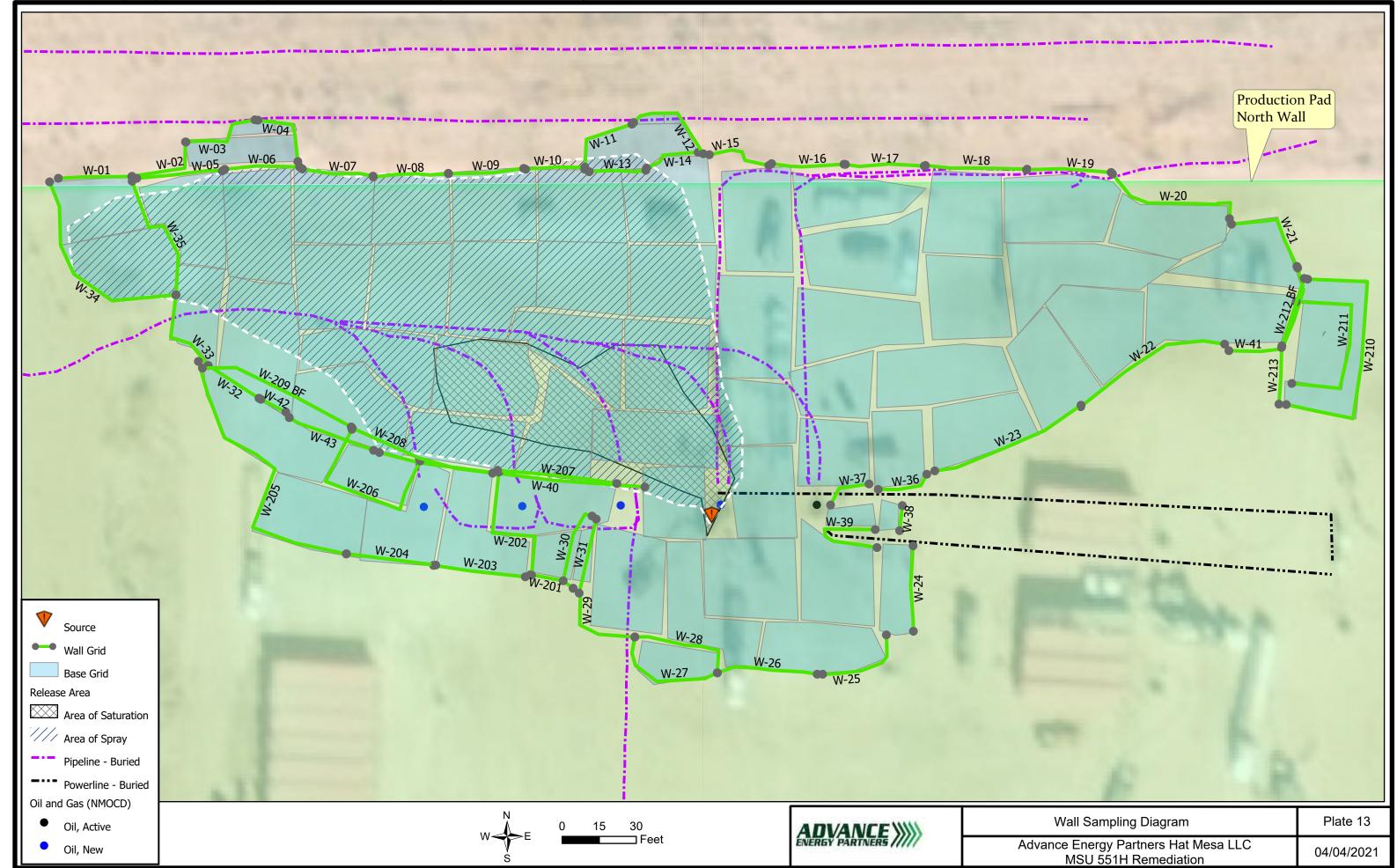












Appendix A

Well Logs



Received by OCD: 4/12/2021 5:32:39 AM



New Mexico Office of the State Engineer

Point of Diversion Summary

435 feet

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

 \mathbf{X}

C 02096

2 3 14 22S 32E

627204 3584464*

Driller License:

Driller Company:

Driller Name:

JOHN H. TRIGG CO.

Drill Start Date:

Drill Finish Date:

12/31/1963 Plug Date:

Source:

Log File Date:

PCW Rcv Date:

Depth Well:

Estimated Yield: 25 GPM

Pump Type:

Pipe Discharge Size:

Depth Water:

360 feet

Casing Size:

7.00

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/17/20 3:04 PM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



New Mexico Office of the State Engineer

Point of Diversion Summary

			(quarters (quarter					(NAD83 U		
Well Tag	POD	Number	Q64 Q					X	Y	
_	C 02	2821	2	2 3	14	22S	32E	627303	3584563*	
x Driller Lice	ense:	1348	Driller C	ompai	ıy:	TAY	LOR V	VATER WE	LL SERVICE	
Driller Nan	ne:									
Drill Start	Date:	06/12/2001	Drill Fin	ish Da	te:	00	5/23/200	01 Pl	ug Date:	
Log File Da	ate:	10/04/2001	PCW Rc	v Date	:			So	ource:	Shallow
Pump Type	e:		Pipe Disc	harge	Size:			Es	stimated Yield:	2 GPM
Casing Size	e:	5.00	Depth W	ell:		54	10 feet	De	epth Water:	340 feet
х	Wate	er Bearing Stratif	ications:	To	op I	Bottom	Desci	ription		
				4	10	540	Sands	stone/Grave	l/Conglomerate	
x		Casing Perf	forations:	To	p I	Bottom				
				4	10	430	ı			
				44	40	540	1			

^{*}UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

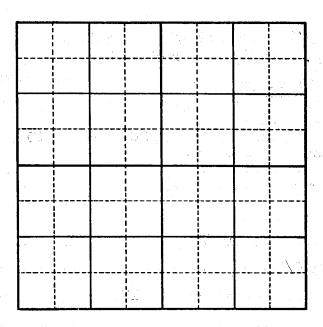
4/17/20 3:09 PM

POINT OF DIVERSION SUMMARY

	AN BASIN		ia ulk so. I
	BASIN NAME	Annil 17 1	 1 970 :
eclaration No. CP-601	Date received	APELL 17, 1	SANTE CHOINES
	STATEMENT		SANTA FE, N.A
Name of Declarant THE MERCHANT LIV			
Mailing Address P.O. Box 548 County of Eddy			
Source of water supply shallow			
Describe well location under one of the following subhead		•	
a¼¼¼ of	ar in		
b. Tract No of Map No	of the	·	
c. X = feet, Y =			
On land owned by			
Description of well: date drilled 1952	driller	depth	2231 feet.
outside diameter of casing 6 5/8 inches; original	l capacitygal	. per min.; present	capacity3
gal. per min.; pumping liftfeet; static wat	er level <u>178</u> feet (ab	ove) (below) land su	ırface;
make and type of pump			
make, type, horsepower, etc., of power plant			· · · · · · · · · · · · · · · · · · ·
Fractitional or percentage interest claimed in well	100%	***************************************	
. Quantity of water appropriated and beneficially use	ed	up_	to 3
for stock water	C(AXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	(acre fe	eet per annum) purposes.
Subdivision Sec. T	Acres wp. Range Irrigated stock onl		Owner chant Livest
<u> </u>			w
		NEW SER	
		SWEIN	
(Note: location of well and acreage actua	lly irrigated must be shown		e.)
. Water was first applied to beneficial use	h day	1952 F 9	and cace that time
has been used fully and continuously on all of the as follows:	above described lands or)
		• .	
	· ·		
. Additional statements or explanations			
name of well - Standard			
· · · · · · · · · · · · · · · · · · ·			
	dent	being first dul	instructions on the re-
I, J. D. Merchant, Jr. Presi depose and say that the above is a full all pomple verse side of this form and submitted in evidence.	te statement prepared in	derground water riel	ht, that I have carefull
I, J. D. Merchant, Jr. Presi depose and say that the above is a full and pomple verse side of this form and submitted in evidences read each and all of the items contained therein and	te statement prepared in cownership of a valid un hat the same are true t	derground water right to the best of my kno	owledge and belief.
depose and say that the above is a full and point werse side of this form and submitted in evidence.	te statement prepared in cownership of a valid un hat the same are true to the mercial of the me	derground water right to the best of my kno	owledge and belief. OCK CO. declarant.
depose and say that the above is a full and point werse side of this form and submitted in evidence.	te statement prepared in cownership of a valid un that the same are true to the true to by:	Aderground water rights to the best of my know that LIVESTO Marchant, Jr.	OCK CO. declarant.

UNDER NEW MEXICO LAW A DECLARATION IS ONLY A STATEMENT OF DECLARANT'S CLAIM ACCEPTANCE FOR FILING DOES NOT CONSTITUTE APPROVAL OR REJECTION OF THE CLAIM.

Locate	well	and areas	actually	irrigated	8.8	accuratel	7: 8 8	possible	on	following	plat:	 ě,	25
				7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			F	- 14 a y 3	5			, thirt	
Section	(8)			Township				Range .				 _ N. M.	P. M



INSTRUCTIONS

Declaration shall be executed (preferably typewritten) in triplicate and must be accompanied by a \$1.00 filing fee. Each of triplicate copies must be properly signed and attested.

A separate declaration must be filed for each well in use.

All blanks shall be filled out fully. Required information which cannot be sworn to by declarant shall be supplied by affidavit of person or persons familiar with the facts and shall be submitted herewith.

0.00

Secs. 1-3. Complete all blanks.

- Sec. 4. Fill out all blanks applicable as fully as possible.
- Sec. 5. Irrigation use shall be stated in acre feet of water per acre per year applied on the land. If used for domestic, municipal, or other purposes, state total quantity in acre feet used annually.
- Sec. 6. Describe only the acreage actually irrigated. When necessary to clearly define irrigated acreages, describe to nearest 2½ acre subdivision. If located on unsurveyed lands, describe by legal supdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily-located natural object.
- Sec. 7. Explain and give dates as nearly as possible of any years when all or part of acreage claimed was not irrigated.
- Sec. 8. If well irrigates or supplies supplemental water to any other land than that described above, or if land is also irrigated from any other source, explain under this section. Give any other data necessary to fully describe water right.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.

SF

66

*/0 APA 20 PM 3 00

April 17, 1979

ATATO ENGINEER OFFICE LL 114 79, N.M. 8**1**501

Files: CP-584; CP-585; CP-586; CP-587; CP-588; CP-589; CP-590; CP-591; CP-592; CP-593; CP-594; CP-595; CP-596; CP-597; CP-598; CP-599; CP-600; CP-601; CP-602

The Merchant Livestock Company P. O. Box 548 Carlsbad, NM 88220

Gentlemen:

Enclosed are your copies of Declarations of Owner of Underground Water Right as numbered above, which have been filed for record in the office of the State Engineer.

Please refer to each individual number in all future correspondence concerning these declarations.

The filing of these declarations does not indicate affirmation or rejection of the statements contained therein.

Yours very truly,

J. C. Groseclose Basin Supervisor

JCG/fh Encls.

cc:

Santa Fe

563298



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X Y

CP 00854 POD1

1 1 2 33 21S 33E

633879 3590223

Driller License: 421 Driller Company: GLENN'S WATER WELL SERVICE

Driller Name: GLENN, CLARK A. "CORKY" (LD)

Drill Start Date: 06/22/1996 **Drill Finish Date:** 06/22/1996 **Plug Date:**

Log File Date: PCW Rcv Date: 10/17/2013 Shallow 07/11/1996 Source: **Pump Type:** Pipe Discharge Size: Estimated Yield: 100 GPM **SUBMER** 2.875 **Casing Size: Depth Well:** 6.63 950 feet **Depth Water:** 600 feet

Water Bearing Stratifications: Top Bottom Description

755 805 Sandstone/Gravel/Conglomerate860 890 Sandstone/Gravel/Conglomerate

Casing Perforations: Top Bottom

760 950

Meter Number:8514Meter Make:BLANCETTMeter Serial Number:040711711Meter Multiplier:1.0000Number of Dials:7Meter Type:Diversion

Unit of Measure: Barrels 42 gal. Return Flow Percent:

Usage Multiplier: Reading Frequency: Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr Comment	Mtr Amount
03/15/2004	2004	121	Α	jw	0
03/29/2004	2004	69871	Α	jw	0
05/17/2004	2004	8758	Α	jw	2.651
06/11/2004	2004	79641	Α	jw	2.998
01/27/2012	2012	18062553	Α	RPT Initial reading	0
03/01/2012	2012	19039807	Α	RPT	2.999
05/29/2013	2013	179696	Α	RPT initial reading	0
10/07/2013	2013	460774	Α	RPT Qtr IV 2013	36.229
11/11/2013	2013	540326	Α	RPT	10.254
01/01/2014	2013	614283	Α	RPT	9.533
10/01/2014	2014	1122654	Α	RPT	65.526
01/01/2015	2014	1212343	Α	RPT	11.560
03/31/2015	2015	1307063	Α	RPT	12.209
06/27/2015	2015	1369556	Α	RPT	8.055

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	g Rdr Comment	Mtr Amount
09/30/2015	2015	1371471	Α	RPT	0.247
10/22/2015	2015	1400502	Α	RPT	3.742
11/30/2015	2015	1400502	Α	RPT	0
04/28/2016	2016	1464116	Α	RPT "JD33 Well"	8.199
06/01/2016	2016	1464116	Α	RPT	0
07/27/2016	2016	1496980	Α	RPT JD33 Well	4.236
09/01/2016	2016	1510835	Α	RPT JD 33 Well	1.786
09/30/2016	2016	1517146	Α	RPT	0.813
10/31/2016	2016	1531178	Α	RPT JD 33 well	1.809
11/29/2016	2016	1553285	Α	RPT JD33 Well	2.849
03/01/2017	2017	1583100	Α	RPT	3.843
**YTD Meter	r Amount	s: Year		Amount	
		2004		5.649	
		2012		2.999	
		2013		56.016	
		2014		77.086	
		2015		24.253	
		2016		19.692	
		2017		3.843	

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New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X Y

CP 01349 POD1

2 3 1 27 21S 33E

635304 3591576

Driller License: 421 **Driller Company:** GLENN'S WATER WELL SERVICE

Driller Name: GLENN, CLARK A. "CORKY"

08/04/2014

7.00

Drill Start Date: 07/12/2014

Drill Finish Date: PCW Rcv Date:

07/18/2014

Plug Date:

Artesian

Log File Date: Pump Type:

Pipe Discharge Size:

Estimated Yield:

Source:

Casing Size:

Depth Well:

1188 feet

Depth Water:

572 feet

Water Bearing Stratifications:

Top Bottom Description

990 1188 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

721 1188



STATE ENGINEER OFFICE

2014 SEP 10 PM 2: 15

GENERAL AND WELL LOCATION	well own Merchan	(East St IER NAME Its/Gler	tanda (s) nn's V	ard South) ** Water Well Serv		09/14 * * *		OSE FILE NU PHONE (OPT) 575-398-2	ONAL)		
WELL]	P. O. Box		NG AD	DDRESS			٠	Tatum		STATE NM 882	ZIP 67
AL AND	WELL	DN I	ATITU		26	es second 54.8	s N		required: one ten	ITH OF A SECOND	
ENER	(FROM G	I		TUDE 103	33 T ADDRESS AND COM	58.3	W 5 (SECTION, T		QUIRED: WGS 84	· · · · · · · · · · · · · · · · · · ·	
9.1	i					th, Range 33 Eas					
	LICENSE NI WD 421	UMBER	4	AME OF LICENSED Orky Glenn	DRILLER				NAME OF WELL DR Glenn's Water	ILLING COMPANY Well Service, Inc	•
	DRILLING S 07/22/14			1	DEPTH OF COMPL 1,192'	ETED WELL (FT)	BORE HO!	LE DEPTH (FT)	DEPTH WATER FIR 925'	ST ENCOUNTERED (F	T)
z	COMPLETE	D WELL IS	· •	ARTESIAN	C DRY HOLE	C shallow (unco	ONFINED)		STATIC WATER LET	VEL IN COMPLETED W	VELL (FT)
IATIO	DRILLING F	LUID:	€	AIR	C MUD	ADDITIVES - SPE	SCIFY:				
ORM	DRILLING N		•	ROTARY	C HAMMER	C CABLE TOOL	Сотн	R - SPECIFY:			
2. DRILLING & CASING INFORMATION	FROM	(feet bgl)		BORE HOLE DIAM (inches)	Gl (include each	FERIAL AND/OR RADE casing string, and ons of screen)	CON	ASING NECTION YPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
& C	.O ¹	40'		20"	16"		None		15 1/2"	.250	
ING	0'	757'		14 3/4"	9 5/8"		Thread		8.921"	36 lbs.	none
	690'	1,192	<u> </u>	8 3/4"	7" (502.14' T 317.96 perfo		Thread	& Collar	6.366"	23 lbs.	1/8"
2. DF					on bottom o						
					•			•			<u> </u>
T.	DEPTH FROM	(feet bgl)		BORE HOLE DIAM. (inches)		NNULAR SEAL MA PACK SIZE-RANG			AMOUNT (cubic feet)	METHO PLACE	
ERI	0'	40'		20"	Cemented				2 yds.	Top Pour	
ANNULAR MATERIAL	0	757'		14 3/4"	Float and sho	oe cemented to s	urface		962	Circulated	
LAR						*			i		
NN				· •							
3. A		-							!		
FOR	OSE INTER	NAL US	L E						WELL RECORD	& LOG (Version 06/	(08/2012)
	NUMBER	C	P-	1355		POD NUMBER			NUMBER 5	4745C)
LOC	ATION	EXP	2/			215.	33	E.2	7.312	PAGI	E 1 OF 2

	DEPTH (feet bgl)	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	4'	4'	Sand	CY ON	
	4'	28'	24'	Caliche	CYON	
	28'	120'	92'	Sand & Clay	CY 6 N	
	120'	260'	140'	Red Clay	CY ON	
	260'	757'	497'	Red & Brown Shale, and Clay (some blue)	CY © N	
	757'	815'	58'	Red & Brown Shale	CY ON	
4 HYDROGEOLOGIC LOG OF WELL	815'	840'	25'	Blue Clay & Shale	CY ON	
OF.	840'	925'	85'	Red and Brown Shale (some sandrock)	CY 6 N	
၁၀	925'	975'	50'	Watersand and Gravel	© Y C N	
12	975'	1,185'	210'	Watersand (brown sandrock)	© Y O N	
901	1,185¹	1,192'	7'.	Red Shale	CY ON	
103					CY © N	
8					CY © N	
					CY ON	·
4					CY ON	
					$C \cdot C N$	
				·	OY,ON	
					$C_A C_N$	
					O Y O N	
					$O_A O_N$	
					$O_A O_N$	
	METHOD U	JSED TO ES	STIMATE YIELD	· · · · · · · · · · · · · · · · · · ·	TAL ESTIMATED	
19. A.V.	C AIR LIF	т	BAILER C	OTHER - SPECIFY:	ELL YIELD (gpm):	
NO	WELL TES			ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLU ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER T		
TEST; RIG SUPERVISION	MISCELLA	NEOUS IN	FORMATION:		en e	
PER	AL 353		ot. d			
ns s		drilled wi 192' drilled	ith muα. d with air and	foam.		
, RIC						
EST	PRINT NA	ME(S) OF D	RILL RIG SUPE	RVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTR	UCTION OTHER TH	IAN LICENSEE:
Ş				•		
	N				· · · · · · · · · · · · · · · · · · ·	
E				FIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECO		
SIGNATURE				20 DAYS AFTER COMPLETION OF WELL DRILLING:		
SNA	a	1	0.1		11.	
6. SIC	Con	Ry 1	Hem	CONKY 6/RMX 9	19/14	
	(SIGNAT	URE OF DRILL	ER / PRINT SIGNER NAME	DATE	
ł						with a spirit as

POD NUMBER

Released to Imaging: 7/27/2021 1:32:26 PM

FILE NUMBER

LOCATION

PAGE 2 OF 2

TRN NUMBER



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

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8	CP ~ 135	5 East	Stan	dard (South)				'				25	-] >-
5	WELL OWN	ER NAN	Æ(S)					PHONE (OPT	IONAL)				ri rij
000	Merchan	nts Liv	estoc	k/Glenn's Wate	r Well Service, I	nc.		(575)398-	2424				Li Li
AND WELL LOCATION	WELL OWN P.O. Box		LING A	DDRESS				CITY Tatum		STA NM		8826	ZIP
E													<u>"</u>
2	WELL			DEGREES			OS				- 700	7	7
Y	LOCATIO	ON	LATIT	_{TUDE} 32	26	54 . 8	N	* ACCURACY	REQUIRED: ONE TEN	TH OF	A SECON	ID 🗓 🚍) !
GENERAL	(FROM G	PS)	LONG	ITUDE 103	33	58.3	W	* DATUM RE	QUIRED: WGS 84		ان س		7
	DESCRIPTIO	N RELAT	ING WE	LL LOCATION TO STREE	T ADDRESS AND COM	MON LANDMARKS - PL	S (SECTION, T	OWNSHJIP, RANG	JE) WHERE AVAILABLE		. Jak 3-17	ata en e e e	
1	NE/NW/	SW Se	c. 27,	T21S, R33E on	Merchants Live:	stock Land							
N. Authoriton and	LICENSE N	UMBER	T	NAME OF LICENSED	DRILLER	Salamanan		8.82548c de	NAME OF WELL DR	ILLING	G COMPA	NY	
	WD 421			Corky Glenn					Glenn's Water \	Well:	Service	, Inc.	
	DRILLING 9 7/29/14	STARTE		DRILLING ENDED 2/14	DEPTH OF COMPLE 1192'	TED WELL (FT)	BORE HO!	LE DEPTH (FT)	DEPTH WATER FIR 925'	ST EN	COUNTE	RED (FT)	
	COMPLETE	D WELL	. IS: (ARTESIAN	C DRYHOLE (SHALLOW (UNC	ONFINED)		STATIC WATER LEV	VEL IN	COMPLE	TED WE	LL (FT)
TIO	DRILLING I	LUID:		AIR	Смир	ADDITIVES - SPI	ECUFY:				· ·		
RMA	DRILLING)	METHOL): (ROTARY	C HAMMER (CABLE TOOL	С отне	R - SPECIFY:					
E	DEPTH	(feet b	gl)	BORE HOLE	CASING MAT	ERIAL AND/OR			CASING	Τ	CDIC I		
	FROM	·	0	DIAM	GR	ADE		ASING VECTION	INSIDE DIAM.		SING V HICKN		SLOT SIZE
DRILLING & CASING INFORMATION				(inches)	L (include each easing string and L			YPE	(inches)	`	(inches		(inches)
C	0'	40'		20"	16" None				15 1/2"	.25	50		
Į.	0'	757'		14 3/4"	9 5/8"		Thread	and Collar	.352	36	lbs.		none
LD	757'	119	2'	8 3/4'	7"			and Collar	6.5"		lbs.		1/8"
E			· • · · · · · · · · · · · · · · · · · ·										
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18 E		ļ			,	 				<u> </u>			
7.9 0													
	DEPTH	(feet by	gl)	BORE HOLE	LIST AN	NULAR SEAL M	ATERIAL A	ND	AMOUNT	de fee e e e e e e e e e e		ÆTHOI	
N T	FROM	T	0	DIAM. (inches)	GRAVEL 1	PACK SIZE-RANG	E BY INTE	RVAL	(cubic feet)		P.	LACEM	ENT
ER	0'	40'		20"	Cemented	•			2 yds		Top P	our	
AT	0'	757'		14 3/4"	Float and Sho	e Cemented to	Surface		1034		Circul	ated	
Σ	<u></u>	 											
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E		<u> </u>					· · · · · · · · · · · · · · · · · · ·						
ANNULAR MATERIAL				·					:		<u> </u>	,	
က				,									
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FOR	OSE INTER	NAL I	ISE					WR2	0 WELL RECORD		G (Versi	on 06/09	V2012)
	NUMBER		P	- 1355		POD NUMBER	7						,,2012)
	ATION	<u> </u>		<u>- 100</u> つ						49	452	PAGE :	OE 2
		<u> </u>	ΧĮ	ļ	 	212.	276	2.27	·7'			TAGE .	. 01 2

myster to the	tings year, the special transfers.	100 C	Author Consultation Consultation		Polising a superior of the control o	_					
	DEPTH (feet bgl)		COLOR AND TYPE OF MATERIAL ENCOUNTERED	WATER VIELD FOR						
			THICKNESS	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZO	ONES BEARING? WATER-	.					
	FROM TO (feet)			(attach supplemental sheets to fully describe all units)	(YES/NO) BEARING ZONES (gpm)						
	0'	4'	4'	Soil	C Y © N	-					
	4'	28'	24'	Caleche	CYGN	-					
	28'	120'	92'	Sand and Clay	C Y © N						
	120'	260'	140'	Red Clay	CYGN						
	260'	757'	497'	Red and Brown Shale and Clay(some blue)	CY ON	_					
	757¹	815'	58'	Red and Brown Shale	CY ON	+					
(EL	815'	840'	25'	Blue Clay and Shale	CY 6 N	-					
4. HYDROGEOLOGIC LOG OF WEL	840'	925'	85'	Red and Brown Shale(some sandrock)	CY 6 N						
Ö	925'	975'	50'	Watersand and Gravel	© Y C N	_					
2	975'	1185'	210'	Watersand(brown sandrock)	© Y C N	\dashv					
Ö	1185'	1192'	7'	Red Shale	CYGN						
EOI					C Y C N						
ROG					$O^{Y} O^{N}$	_					
IXD					CYCN	_					
1					CY CN	_					
					CYCN	_					
					CYCN						
					OY ON						
Antonio (E. A.)					CY CN						
AV TO THE					CYCN						
					CYCN	_					
	METHOD U	JSED TO ES	I STIMATE YIELD	O OF WATER-BEARING STRATA: PUMP	TOTAL ESTIMATED						
	C AIR LIF	т О	BAILER (OTHER - SPECIFY:	WELL YIELD (gpm): 50						
			2 (A=1) (1 (A=1)			777					
	WELL TES			ACH A COPY OF DATA COLLECTED DURING WELL TESTING ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN							
SION											
RVI SRVI	MISCELLANEOUS INFORMATION:										
RIG SUPERVI	0' to 757' drilled with mud. 757' to 1192' drilled with air and foam.										
S SI	O to 757 diffied with finda. 757 to 1152 diffied with an and 10dff.										
I											
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN I										
ં											
U.91. 676 e.3 	THE UNDE	RSIGNED I	IFRERV CERTII	FIES THAT TO THE BEST OF HIS OR HER KNOW! EDGE AND	SELIEF THE FOREGOING IS A TRUE AND						
1	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A THE CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE EN AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:										
Š											
ું છે. જ	_6	Jag.	of tem	Corky Gless	8/1/14						
Ayr.	and office.	SIGNAT	URE OF DRILLI	ER / PRINT SIGNEE NAME	DATE	(A.Je					
FOI	R OSE INTER			WR-20	WELL RECORD & LOG (Version 06/08/2012	.)					
FIL	E NUMBER	10-	-1355		UMBER 5 49450	_					

TRN NUMBER

PAGE 2 OF 2

LOCATION



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X Y

CP 01356 POD1

4 2 2 33 21S 33E

634560 3590014

9

Driller License: 421 Driller Company: GLENN'S WATER WELL SERVICE

PCW Rcv Date:

Driller Name: GLENN, CLARK A. "CORKY"

08/25/2014

6.37

Drill Start Date: 08/01/2014

Drill Finish Date: 08

08/09/2014 Plug Date:

Artesian

Log File Date: Pump Type:

Pipe Discharge Size:

Estimated Yield:

Source:

Casing Size:

Depth Well:

1098 feet

Depth Water: 555 feet

Water Bearing Stratifications:	Тор	Bottom	Description
	765	795	Sandstone/Gravel/Conglomerate
	795	825	Shale/Mudstone/Siltstone
	825	920	Sandstone/Gravel/Conglomerate
	920	935	Shale/Mudstone/Siltstone
	935	968	Sandstone/Gravel/Conglomerate
	968	976	Shale/Mudstone/Siltstone
	976	1005	Sandstone/Gravel/Conglomerate
	1005	1092	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

735 1098

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X Y

CP 01357 POD1

4 3 1 27 21S 33E

634782 3591347

0

Driller License: 421 Driller Company: GLENN'S WATER WELL SERVICE

Driller Name: GLENN, CLARK A. "CORKY"

09/10/2014

6.37

Drill Start Date: 08/16/2014

Drill Finish Date:

PCW Rcv Date:

08/26/2014 Plug Date:

Source: Artesian

Log File Date: Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well:

1286 feet

Depth Water: 578 feet

Water Bearing Stratifications: Top Bottom Description

945 960 Sand

960 Sandstone/Gravel/Conglomerate

960 1077

77 Shale/Mudstone/Siltstone

1077 1215 Sandstone/Gravel/Conglomerate1215 1286 Shale/Mudstone/Siltstone

Casing Perforations:

Top Bottom

846

1286



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

NOI	OSE POD NO. (WELL NO.) CP-1701-POD1 WELL TAG ID NO.						OSE FILE NO(S).				
OCAT	WELL OWN The Jimmy		T and 2005 GST T	rusts	PHONE (OPTIONAL)						
AND WELL LOCATION	WELL OWNER MAILING ADDRESS c/o Stacey Mills PO Box 1359						CITY STATE Loving NM 88256-1				
	LOCATION LATITUDE			19			Y REQUIRED: ONE TENTH OF A SECOND				
GENERAL	(FROM GI	LO	NGITUDE	103 39 10.1 W *DATI TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION 1)			TUM REQUIRED: WGS 84				
_ე -	DESCRIPTION	ON RELATIN	IG WELL LOCATION TO	STREET ADDRESS AND COMMON LANDA	ARKS – PLS	S (SECTION, TO	wnshjip, range) wh				
	LICENSE NO		NAME OF LICENSED		1		NAME OF WELL DRILLING COMPANY				
	WD1706		Bryce Wallace					Elite Drillers Corporation			
	DRILLING STARTED 10/15/18		DRILLING ENDED 11/29/18	DEPTH OF COMPLETED WELL (FT) 840	1	LE DEPTH (FT) 880	560				
Z	COMPLETED WELL IS: ARTESIAN			DRY HOLE SHALLOW (UNCONFINED)		STATIC WATER LEV	ELL (FT)				
¥T.C	DRILLING F	LUD:	[7] AIR	MUD ADDITIVES - SPECIFY:			· V				
)RM	DRILLING METHOD: Z ROTARY		✓ ROTARY	HAMMER CABLE TOOL OTHER - SPECIFY:		R – SPECIFY:	en e				
CASING INFORMATION	DEPTH FROM	DEPTH (feet bgl) ROM TO DIAM (inches)		(include each casing string, and		ASING NECTION YPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)		
	0	20	12.75	note sections of screen) ASTM53 Grade B Steel		ling diameter) N/A	12.57	.188			
%	+2	460	12.25	ASTM53 Grade B steel	ļ	relded	6.065	.28			
2. DRILLING	460	460 840 12.25		SDR17 PVC		pline	6	SDR17	.032		
2. D											
							·	,			
	DEPTH	(feet bgl)	BORE HOLE	LIST ANNULAR SEAL MA	ATERIAL A	AND	AMOUNT	METHO	D OF		
¥	FROM TO		DIAM. (inches)				(cubic feet)		METHOD OF PLACEMENT		
ER	0	20	12.75	Portland I/II Cen	Portland I/II Cement			Pou	Pour		
WAI	0	453	12.25	Baroid Benseal Grout			247	Trimı	Trimmie		
ANNULAR MATERIAI	453	860 12.25 8/16 Silica Sand				285	Pou	Pour			
3. A.N.S.	-										
						· · ·					
FOR FILE	OSE INTER	MAL USE	701	POD NO.	1	WR-20		& LOG (Version 06/3	0/17)		
	ATION	Iqx		215.32E.35.3	; i	WELL TAG II	- Uhl-	PAGE	1 OF 2		

						77. 10. 11.					
	DEPTH (feet bgf) THICKNESS FROM TO (feet)			COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)			ER ING? 'NO)	ESTIMATED YIELD FOR WATER- BEARING			
	0	5	5	Topsoil		Y	N	ZONES (gpm)			
	5	8	3	Caliche		Y	N N				
	8	80	72	Tan/Red sandy caliche		Y					
	80	190	110	Red clay		Y	N				
	190	400	210	Tan/Red sandstone		Y	N				
ر ا	400	560	160	Red siltstone		Y	N N	 -			
4. HYDROGEOLOGIC LOG OF WELL	560	575	15	Red siltstone/Gyp	/	′ Y	N	5.00			
	575	750	175	Red siltstone		Y	N				
9	750	770	20	Red siltstone/Gyp		′ Y	N	25.00			
	770	840	70	Red siltstone		Y	N	1.811·-31/			
503	840	880	40	Red Shale	_	Y	N				
[03:						Y	N				
ROC						Y	N				
HXD		-				Y	N				
4						Y	N				
		··········				Y	N				
					*	Y	N	(**)			
						Y	N				
						Y	N	1			
[_				-	Y	N				
		****				Y	N	(J)			
	WEI _						ATED (gpm):	30.00			
	PUMP AIR LIFT BAILER OTHER - SPECIFY:										
NO	WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.										
VISI	MISCELLANEOUS INFORMATION:										
TEST; RIG SUPERVISION											
RIG											
TESŢ	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:										
Š											
ξE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER										
SIGNATURE	AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:										
6. SIGN	Bryce Wallace						12/10/2018				
(SIGNATURE OF DRILLER / PRINT SIGNEE NAME						DATE				
FOF	OSE INTERN	NAL USE		WR-20 WEI	L RECOF	₩ L	OG (Ver	sion 06/30/2017)			
FIL	ENO.	P-170	<u> </u>	POD NO. TRN NO.	410	130	5_				
LOG	CATION E	ועצ.		15.32 E.35.31 WELL TAG ID NO.				PAGE 2 OF 2			

Appendix B

Certificate of Analysis





April 02, 2020

ANDREW PARKER
R T HICKS CONSULTANTS
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE, NM 87104

RE: ADVANCE ENERGY

Enclosed are the results of analyses for samples received by the laboratory on 04/01/20 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keine

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Analyzed By MC

 Received:
 04/01/2020

 Reported:
 04/02/2020

 Project Name:
 ADVANCE ENERGY

Project Name: ADVANCE ENERGY
Project Number: MSU 551H
Project Location: NOT GIVEN

Sampling Date: 03/30/2020

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Kelly Jacobson

Sample ID: HA - 01 0' (H000976-01)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	04/02/2020	ND	1.86	93.2	2.00	9.37	
Toluene*	0.433	0.200	04/02/2020	ND	1.85	92.7	2.00	9.75	
Ethylbenzene*	2.17	0.200	04/02/2020	ND	1.86	92.8	2.00	9.95	
Total Xylenes*	13.7	0.600	04/02/2020	ND	5.34	89.0	6.00	10.5	
Total BTEX	16.3	1.20	04/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	184	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	04/02/2020	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1730	200	04/02/2020	ND	185	92.7	200	0.00809	
DRO >C10-C28*	96500	200	04/02/2020	ND	178	89.1	200	1.72	
EXT DRO >C28-C36	495	200	04/02/2020	ND					
Surrogate: 1-Chlorooctane	477 :	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	3450	% 42.2-15	6						

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Celey D. Keene



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 04/01/2020 Sampling Date: 03/30/2020

Reported: 04/02/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Sample Received By: Project Number: MSU 551H Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: HA - 01 1' (H000976-02)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2020	ND	1.86	93.2	2.00	9.37	
Toluene*	0.190	0.050	04/02/2020	ND	1.85	92.7	2.00	9.75	
Ethylbenzene*	2.14	0.050	04/02/2020	ND	1.86	92.8	2.00	9.95	
Total Xylenes*	14.1	0.150	04/02/2020	ND	5.34	89.0	6.00	10.5	
Total BTEX	16.4	0.300	04/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	242 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	04/02/2020	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	778	10.0	04/02/2020	ND	185	92.7	200	0.00809	
DRO >C10-C28*	7790	10.0	04/02/2020	ND	178	89.1	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	04/02/2020	ND					
Surrogate: 1-Chlorooctane	246 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	264	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 04/01/2020 Sampling Date: 03/30/2020

Reported: 04/02/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MS

Project Location: NOT GIVEN

Sample ID: HA - 01 2' (H000976-03)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2020	ND	1.86	93.2	2.00	9.37	
Toluene*	<0.050	0.050	04/02/2020	ND	1.85	92.7	2.00	9.75	
Ethylbenzene*	<0.050	0.050	04/02/2020	ND	1.86	92.8	2.00	9.95	
Total Xylenes*	<0.150	0.150	04/02/2020	ND	5.34	89.0	6.00	10.5	
Total BTEX	<0.300	0.300	04/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	04/02/2020	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2020	ND	185	92.7	200	0.00809	
DRO >C10-C28*	223	10.0	04/02/2020	ND	178	89.1	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	04/02/2020	ND					
Surrogate: 1-Chlorooctane	104	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	111	% 42.2-15	6						

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Celey D. Keene

S-04



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 04/01/2020 Sampling Date: 03/30/2020

Reported: 04/02/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MS

Project Location: NOT GIVEN

Sample ID: HA - 02 0' (H000976-04)

BTEX 8021B

				<u> </u>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2020	ND	1.86	93.2	2.00	9.37	
Toluene*	0.466	0.050	04/02/2020	ND	1.85	92.7	2.00	9.75	
Ethylbenzene*	2.01	0.050	04/02/2020	ND	1.86	92.8	2.00	9.95	
Total Xylenes*	12.2	0.150	04/02/2020	ND	5.34	89.0	6.00	10.5	
Total BTEX	14.7	0.300	04/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	230 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	36000	16.0	04/02/2020	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	602	50.0	04/02/2020	ND	185	92.7	200	0.00809	
DRO >C10-C28*	26700	50.0	04/02/2020	ND	178	89.1	200	1.72	
EXT DRO >C28-C36	3930	50.0	04/02/2020	ND					
Surrogate: 1-Chlorooctane	448 9	% 44.3-14							

Surrogate: 1-Chlorooctadecane 1010 % 42.2-156

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Celey D. Keine



Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 04/01/2020 Sampling Date: 03/30/2020

Reported: 04/02/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Applyzod By: MC

Project Location: NOT GIVEN

Sample ID: HA - 02 1' (H000976-05)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2020	ND	1.86	93.2	2.00	9.37	
Toluene*	<0.050	0.050	04/02/2020	ND	1.85	92.7	2.00	9.75	
Ethylbenzene*	<0.050	0.050	04/02/2020	ND	1.86	92.8	2.00	9.95	
Total Xylenes*	<0.150	0.150	04/02/2020	ND	5.34	89.0	6.00	10.5	
Total BTEX	<0.300	0.300	04/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	04/02/2020	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2020	ND	185	92.7	200	0.00809	
DRO >C10-C28*	64.6	10.0	04/02/2020	ND	178	89.1	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	04/02/2020	ND					
Surrogate: 1-Chlorooctane	87.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	96.1	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Applyzod By: MC

 Received:
 04/01/2020
 Sampling Date:
 03/30/2020

 Reported:
 04/02/2020
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: HA - 02 2' (H000976-06)

RTFY 8021R

B1EX 8021B	mg,	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2020	ND	1.86	93.2	2.00	9.37	
Toluene*	< 0.050	0.050	04/02/2020	ND	1.85	92.7	2.00	9.75	
Ethylbenzene*	<0.050	0.050	04/02/2020	ND	1.86	92.8	2.00	9.95	
Total Xylenes*	<0.150	0.150	04/02/2020	ND	5.34	89.0	6.00	10.5	
Total BTEX	<0.300	0.300	04/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/02/2020	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2020	ND	185	92.7	200	0.00809	
DRO >C10-C28*	<10.0	10.0	04/02/2020	ND	178	89.1	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	04/02/2020	ND					
Surrogate: 1-Chlorooctane	89.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	94.6	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 04/01/2020 Sampling Date: 03/30/2020

Reported: 04/02/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Applyzod By: MC

Project Location: NOT GIVEN

Sample ID: HA - 03 0' (H000976-07)

RTFY 8021R

B1EX 8021B	mg/	кg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.71	1.00	04/02/2020	ND	1.86	93.2	2.00	9.37	
Toluene*	21.7	1.00	04/02/2020	ND	1.85	92.7	2.00	9.75	
Ethylbenzene*	19.7	1.00	04/02/2020	ND	1.86	92.8	2.00	9.95	
Total Xylenes*	77.4	3.00	04/02/2020	ND	5.34	89.0	6.00	10.5	
Total BTEX	121	6.00	04/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20000	16.0	04/02/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2030	200	04/02/2020	ND	185	92.7	200	0.00809	
DRO >C10-C28*	31600	200	04/02/2020	ND	178	89.1	200	1.72	
EXT DRO >C28-C36	4570	200	04/02/2020	ND					
Surrogate: 1-Chlorooctane	360	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	1020	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 04/01/2020 Sampling Date: 03/30/2020

Reported: 04/02/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

1' (H000976-08) Sample ID: HA - 03

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2020	ND	1.86	93.2	2.00	9.37	
Toluene*	<0.050	0.050	04/02/2020	ND	1.85	92.7	2.00	9.75	
Ethylbenzene*	0.057	0.050	04/02/2020	ND	1.86	92.8	2.00	9.95	
Total Xylenes*	0.265	0.150	04/02/2020	ND	5.34	89.0	6.00	10.5	
Total BTEX	0.321	0.300	04/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	04/02/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2020	ND	167	83.7	200	15.3	
DRO >C10-C28*	1180	10.0	04/02/2020	ND	163	81.7	200	12.0	
EXT DRO >C28-C36	24.1	10.0	04/02/2020	ND					
Surrogate: 1-Chlorooctane	81.4	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	123	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 04/01/2020 Sampling Date: 03/30/2020

Reported: 04/02/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Applyzod By: MC

Project Location: NOT GIVEN

Sample ID: HA - 03 2' (H000976-09)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2020	ND	1.86	93.2	2.00	9.37	
Toluene*	<0.050	0.050	04/02/2020	ND	1.85	92.7	2.00	9.75	
Ethylbenzene*	<0.050	0.050	04/02/2020	ND	1.86	92.8	2.00	9.95	
Total Xylenes*	<0.150	0.150	04/02/2020	ND	5.34	89.0	6.00	10.5	
Total BTEX	<0.300	0.300	04/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	04/02/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2020	ND	167	83.7	200	15.3	
DRO >C10-C28*	286	10.0	04/02/2020	ND	163	81.7	200	12.0	
EXT DRO >C28-C36	11.8	10.0	04/02/2020	ND					
Surrogate: 1-Chlorooctane	81.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	96.5	% 42.2-15	6						

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Celey D. Keine



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

COMPANY NAMED	7 77 77	•		011		\N.		
Company ramo.	K. I. Hicks Consultants	ultants		133	Series Control of the	AWA	ANALIGIO ARGORO	
Project Manager:	Andrew Parker							
Address: On-File	ile			Company: R.T. Hicks	S			
City:		State:	Zip:	Attn: Send to				
Phone #:		Fax #:		Address: andrew@rthicks	thicks			
Project #:		Project Owner:		city: consult.com				
ame: A	drance Energy	46		State: Zip:				
Project Location:	MS4 SSI	H		Phone #:	MI			
Sampler Name: J.	Jacob Saenz			Fax #:	0.1	-		
FOR LAB USE ONLY			S ER	PRESERV. SAMPLING	DE			
Lab I.D.	Sample I.D.	Þ	E)RAB OR (C) CONTAINERS ROUNDWATE ASTEWATER DIL L LUDGE	THER: CID/BASE: E / COOL THER:	CHLORI	PH (GROBENZEN		
	10-VH	170	×	S.	13°	×		
2 44	14-01	下北			12:300			
	10-VH	SFT			100			
IH D	HA-07	087			1:15/1			
N	MA-02	197			1:30,0			
C Hi	HA-07	2F7			1:45 /			
W E	MA-03	077			ا دوانه			
IN A	HA-03	107			2:300	/ /		
14 12	4A -03	25-1	~	<	33000 0	4		
PLEASE NOTE: Liability and Dal analyses. All claims including the service. In no event shall Cardina affiliates or successors arising out	mages, Cardinal's liability and cl see for negligence and any other at be liable for incidental or consi t of or related to the performance	ient's exclusive remedy for a cause whatsoevar shall be equental damages, including to of sorvices hereunder by C	**************************************	PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be lignifed to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Çafdinal within 3d days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of usy. For loss of profits incurred by Cardinals, affiliates or successors entiting out of or related to the performance of services because of such parts of successors are for related to the performance of services because of services of whether such damin is based upon any of the above stated reasons or otherwise.	id by the client for the or completion of the applicable client, its subsidiaries, asons or otherwise.			
Relinquished By: 5ALab SAENZ	AENZ	Pate; -20	Received By:		튭	☐ Yes ☐ No Add'I ☐ Yes ☐ No Add'I	Add'l Phone #: Add'l Fax #:	
Relinquished By:	h	Date: Time:	Received By:			QusH!		
Delivered By: (Circle One)		1,90	Sample Condition Cool Intact	tion CHECKED BY:		. (
Sampler - UPS - E	Bus - Other:		#113 Tyes Tyes	14				



May 18, 2020

ANDREW PARKER
R T HICKS CONSULTANTS
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE, NM 87104

RE: ADVANCE ENERGY

Enclosed are the results of analyses for samples received by the laboratory on 05/14/20 9:42.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keine

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Analyzed By: MS

Received: 05/14/2020

mg/kg

Received: 05/14/2020 Sampling Date: 05/08/2020 Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: W - 01 + 4-0' (H001326-01)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2020	ND	1.91	95.7	2.00	2.44	
Toluene*	<0.050	0.050	05/14/2020	ND	1.89	94.4	2.00	2.03	
Ethylbenzene*	<0.050	0.050	05/14/2020	ND	1.92	95.9	2.00	2.31	
Total Xylenes*	<0.150	0.150	05/14/2020	ND	5.50	91.7	6.00	2.36	
Total BTEX	<0.300	0.300	05/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/14/2020	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2020	ND	207	103	200	2.15	
DRO >C10-C28*	<10.0	10.0	05/14/2020	ND	210	105	200	0.781	
EXT DRO >C28-C36	<10.0	10.0	05/14/2020	ND					
Surrogate: 1-Chlorooctane	86.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	87.2	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/14/2020 Sampling Date: 05/08/2020

Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: W - 01 0-1' (H001326-02)

Chloride, SM4500Cl-B

Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 64.0 16.0 05/14/2020 ND 432 108 400 3.64

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Celeg D. Keine



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received: 05/14/2020 Sampling Date: 05/08/2020

Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: W - 02 + 4-0' (H001326-03)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2020	ND	1.95	97.7	2.00	3.93	
Toluene*	<0.050	0.050	05/14/2020	ND	1.95	97.5	2.00	3.93	
Ethylbenzene*	<0.050	0.050	05/14/2020	ND	1.96	97.9	2.00	4.00	
Total Xylenes*	<0.150	0.150	05/14/2020	ND	5.65	94.2	6.00	4.34	
Total BTEX	<0.300	0.300	05/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.3 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/l	κg	Analyze	d By: AC					

mg/kg		Analyzed By: AC						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
96.0	16.0	05/14/2020	ND	416	104	400	0.00	
mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	05/14/2020	ND	207	103	200	2.15	
<10.0	10.0	05/14/2020	ND	210	105	200	0.781	
<10.0	10.0	05/14/2020	ND					
•	96.0 mg/ Result <10.0 <10.0	96.0 16.0 mg/kg Result Reporting Limit <10.0	96.0 16.0 05/14/2020 mg/kg Analyze Result Reporting Limit Analyzed <10.0	96.0 16.0 05/14/2020 ND mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank <10.0	96.0 16.0 05/14/2020 ND 416 mg/ky Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <10.0 10.0 05/14/2020 ND 207 <10.0 10.0 05/14/2020 ND 210	96.0 16.0 05/14/2020 ND 416 104 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	96.0 16.0 05/14/2020 ND 416 104 400 mg/ky Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0	96.0 16.0 05/14/2020 ND 416 104 400 0.00 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0

Surrogate: 1-Chlorooctane 100 % 44.3-144 Surrogate: 1-Chlorooctadecane 101 % 42.2-156

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

mg/kg

Received: 05/14/2020 Sampling Date: 05/08/2020

Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MS

Project Location: NOT GIVEN

Sample ID: W - 03 + 4-0' (H001326-04)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2020	ND	1.95	97.7	2.00	3.93	
Toluene*	<0.050	0.050	05/14/2020	ND	1.95	97.5	2.00	3.93	
Ethylbenzene*	<0.050	0.050	05/14/2020	ND	1.96	97.9	2.00	4.00	
Total Xylenes*	<0.150	0.150	05/14/2020	ND	5.65	94.2	6.00	4.34	
Total BTEX	<0.300	0.300	05/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/14/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2020	ND	186	92.8	200	2.94	
DRO >C10-C28*	<10.0	10.0	05/15/2020	ND	178	89.1	200	7.88	
EXT DRO >C28-C36	<10.0	10.0	05/15/2020	ND					
Surrogate: 1-Chlorooctane	99.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	101 9	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/14/2020 Sampling Date: 05/08/2020

Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MS

Project Location: NOT GIVEN

mg/kg

Sample ID: W - 04 + 4-0' (H001326-05)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2020	ND	1.91	95.7	2.00	2.44	
Toluene*	<0.050	0.050	05/14/2020	ND	1.89	94.4	2.00	2.03	
Ethylbenzene*	<0.050	0.050	05/14/2020	ND	1.92	95.9	2.00	2.31	
Total Xylenes*	<0.150	0.150	05/14/2020	ND	5.50	91.7	6.00	2.36	
Total BTEX	<0.300	0.300	05/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed 05/14/2020	Method Blank	BS 416	% Recovery	True Value QC 400	RPD 0.00	Qualifier
•		16.0	05/14/2020			,	-		Qualifier
Chloride	240	16.0	05/14/2020	ND		,	-		Qualifier Qualifier
Chloride TPH 8015M	240 mg,	16.0 /kg	05/14/2020 Analyze	ND d By: MS	416	104	400	0.00	
Chloride TPH 8015M Analyte	240 mg, Result	16.0 /kg Reporting Limit	05/14/2020 Analyze Analyzed	ND d By: MS Method Blank	416 BS	104 % Recovery	400 True Value QC	0.00	
Chloride TPH 8015M Analyte GRO C6-C10*	240 mg/ Result <10.0	16.0 /kg Reporting Limit 10.0	05/14/2020 Analyze Analyzed 05/14/2020	ND d By: MS Method Blank ND	416 BS 200	% Recovery	400 True Value QC 200	0.00 RPD 1.78	

Surrogate: 1-Chlorooctane 101 % 44.3-144
Surrogate: 1-Chlorooctadecane 104 % 42.2-156

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Analyzed By: MS

Received: 05/14/2020 Sampling Date: 05/08/2020

Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: W - 05 0-4' (H001326-06)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2020	ND	1.91	95.7	2.00	2.44	
Toluene*	<0.050	0.050	05/14/2020	ND	1.89	94.4	2.00	2.03	
Ethylbenzene*	<0.050	0.050	05/14/2020	ND	1.92	95.9	2.00	2.31	
Total Xylenes*	<0.150	0.150	05/14/2020	ND	5.50	91.7	6.00	2.36	
Total BTEX	<0.300	0.300	05/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	05/14/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2020	ND	200	100	200	1.78	
DRO >C10-C28*	<10.0	10.0	05/14/2020	ND	201	100	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	05/14/2020	ND					
Surrogate: 1-Chlorooctane	92.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	92.1	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/14/2020 Sampling Date: 05/08/2020

Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MS

Project Location: NOT GIVEN

mg/kg

Sample ID: W - 06 0-4' (H001326-07)

BTEX 8021B

DILX GOZID	iiig/	, kg	Andryzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2020	ND	1.91	95.7	2.00	2.44	
Toluene*	<0.050	0.050	05/14/2020	ND	1.89	94.4	2.00	2.03	
Ethylbenzene*	<0.050	0.050	05/14/2020	ND	1.92	95.9	2.00	2.31	
Total Xylenes*	<0.150	0.150	05/14/2020	ND	5.50	91.7	6.00	2.36	
Total BTEX	<0.300	0.300	05/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	29200	16.0	05/14/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2020	ND	200	100	200	1.78	
DRO >C10-C28*	<10.0	10.0	05/14/2020	ND	201	100	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	05/14/2020	ND					
Surrogate: 1-Chlorooctane	99.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	101	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 05/14/2020 Sampling Date: 05/08/2020

Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

mg/kg

Sample ID: W - 07 + 4-0' (H001326-08)

Chloride, SM4500Cl-B

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 352 16.0 05/14/2020 ND 416 104 400 0.00

Analyzed By: AC

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/14/2020 Sampling Date: 05/08/2020

Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MS

Project Location: NOT GIVEN

mg/kg

Sample ID: W - 07 0-4' (H001326-09)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2020	ND	1.91	95.7	2.00	2.44	
Toluene*	<0.050	0.050	05/14/2020	ND	1.89	94.4	2.00	2.03	
Ethylbenzene*	<0.050	0.050	05/14/2020	ND	1.92	95.9	2.00	2.31	
Total Xylenes*	<0.150	0.150	05/14/2020	ND	5.50	91.7	6.00	2.36	
Total BTEX	<0.300	0.300	05/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24400	16.0	05/14/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2020	ND	200	100	200	1.78	
DRO >C10-C28*	<10.0	10.0	05/15/2020	ND	201	100	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	05/15/2020	ND					
Surrogate: 1-Chlorooctane	94.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	94.7	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received: 05/14/2020 Sampling Date: 05/08/2020

Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Sample Received By: Project Number: MSU 551H Kelly Jacobson

Analyzed By: MS

Project Location: NOT GIVEN

mg/kg

Sample ID: W - 08 + 4-0' (H001326-10)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2020	ND	1.91	95.7	2.00	2.44	
Toluene*	<0.050	0.050	05/14/2020	ND	1.89	94.4	2.00	2.03	
Ethylbenzene*	<0.050	0.050	05/14/2020	ND	1.92	95.9	2.00	2.31	
Total Xylenes*	<0.150	0.150	05/14/2020	ND	5.50	91.7	6.00	2.36	
Total BTEX	<0.300	0.300	05/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/14/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2020	ND	200	100	200	1.78	
DRO >C10-C28*	<10.0	10.0	05/15/2020	ND	201	100	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	05/15/2020	ND					
Surrogate: 1-Chlorooctane	102 9	% 44.3-14	4						

Surrogate: 1-Chlorooctadecane 103 % 42.2-156

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 05/14/2020 Sampling Date: 05/08/2020

Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MS

Project Location: NOT GIVEN

mg/kg

Sample ID: W - 08 0-4' (H001326-11)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2020	ND	1.91	95.7	2.00	2.44	
Toluene*	<0.050	0.050	05/14/2020	ND	1.89	94.4	2.00	2.03	
Ethylbenzene*	<0.050	0.050	05/14/2020	ND	1.92	95.9	2.00	2.31	
Total Xylenes*	<0.150	0.150	05/14/2020	ND	5.50	91.7	6.00	2.36	
Total BTEX	<0.300	0.300	05/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26000	16.0	05/14/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2020	ND	200	100	200	1.78	
DRO >C10-C28*	<10.0	10.0	05/15/2020	ND	201	100	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	05/15/2020	ND					
Surrogate: 1-Chlorooctane	94.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	94.0	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Analyzed By: MS

Received: 05/14/2020 Sampling Date: 05/09/2020 Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

mg/kg

Sample ID: W - 09 + 4-0' (H001326-12)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2020	ND	1.91	95.7	2.00	2.44	
Toluene*	<0.050	0.050	05/14/2020	ND	1.89	94.4	2.00	2.03	
Ethylbenzene*	<0.050	0.050	05/14/2020	ND	1.92	95.9	2.00	2.31	
Total Xylenes*	<0.150	0.150	05/14/2020	ND	5.50	91.7	6.00	2.36	
Total BTEX	<0.300	0.300	05/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed 05/14/2020	Method Blank	BS 416	% Recovery	True Value QC 400	RPD 0.00	Qualifier
•		16.0	05/14/2020			,	·		Qualifier
Chloride	32.0	16.0	05/14/2020	ND		,	·		Qualifier Qualifier
Chloride TPH 8015M	32.0 mg/	16.0 /kg	05/14/2020 Analyze	ND d By: MS	416	104	400	0.00	
Chloride TPH 8015M Analyte	32.0 mg/	16.0 /kg Reporting Limit	05/14/2020 Analyze Analyzed	ND d By: MS Method Blank	416 BS	104 % Recovery	400 True Value QC	0.00	
Chloride TPH 8015M Analyte GRO C6-C10*	32.0 mg/ Result <10.0	16.0 /kg Reporting Limit 10.0	05/14/2020 Analyze Analyzed 05/15/2020	ND d By: MS Method Blank ND	416 BS 200	% Recovery	400 True Value QC 200	0.00 RPD 1.78	

Surrogate: 1-Chlorooctane 94.9 % 44.3-144 Surrogate: 1-Chlorooctadecane 97.5 % 42.2-156

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/14/2020 Sampling Date: 05/09/2020

05/14/2020

Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

8000

16.0

Sample ID: W - 09 0-4' (H001326-13)

Chloride, SM4500Cl-B

Chloride

Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

ND

416

104

400

0.00

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/14/2020 Sampling Date: 05/09/2020

Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MS

Project Location: NOT GIVEN

mg/kg

Sample ID: W - 10 + 4-0' (H001326-14)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2020	ND	1.91	95.7	2.00	2.44	
Toluene*	<0.050	0.050	05/14/2020	ND	1.89	94.4	2.00	2.03	
Ethylbenzene*	<0.050	0.050	05/14/2020	ND	1.92	95.9	2.00	2.31	
Total Xylenes*	<0.150	0.150	05/14/2020	ND	5.50	91.7	6.00	2.36	
Total BTEX	<0.300	0.300	05/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/14/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2020	ND	200	100	200	1.78	
DRO >C10-C28*	<10.0	10.0	05/15/2020	ND	201	100	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	05/15/2020	ND					
Surrogate: 1-Chlorooctane	95.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	94.3	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/14/2020 Sampling Date: 05/09/2020

Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MS

Project Location: NOT GIVEN

Sample ID: W - 10 0-4' (H001326-15)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2020	ND	1.91	95.7	2.00	2.44	
Toluene*	<0.050	0.050	05/14/2020	ND	1.89	94.4	2.00	2.03	
Ethylbenzene*	<0.050	0.050	05/14/2020	ND	1.92	95.9	2.00	2.31	
Total Xylenes*	<0.150	0.150	05/14/2020	ND	5.50	91.7	6.00	2.36	
Total BTEX	<0.300	0.300	05/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6930	16.0	05/14/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2020	ND	200	100	200	1.78	
DRO >C10-C28*	<10.0	10.0	05/15/2020	ND	201	100	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	05/15/2020	ND					
Surrogate: 1-Chlorooctane	93.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.1	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/14/2020 Sampling Date: 05/09/2020

Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MS

Project Location: NOT GIVEN

mg/kg

Sample ID: W - 11 + 4-0' (H001326-16)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2020	ND	1.91	95.7	2.00	2.44	
Toluene*	<0.050	0.050	05/14/2020	ND	1.89	94.4	2.00	2.03	
Ethylbenzene*	<0.050	0.050	05/14/2020	ND	1.92	95.9	2.00	2.31	
Total Xylenes*	<0.150	0.150	05/14/2020	ND	5.50	91.7	6.00	2.36	
Total BTEX	<0.300	0.300	05/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/14/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2020	ND	200	100	200	1.78	
DRO >C10-C28*	<10.0	10.0	05/15/2020	ND	201	100	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	05/15/2020	ND					
Surrogate: 1-Chlorooctane	93.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	92.9	% 42.2-15	6						

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Celey D. Kune



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/14/2020 Sampling Date: 05/09/2020

Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MS

Project Location: NOT GIVEN

mg/kg

Sample ID: W - 12 + 4-0' (H001326-17)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2020	ND	1.91	95.7	2.00	2.44	
Toluene*	<0.050	0.050	05/14/2020	ND	1.89	94.4	2.00	2.03	
Ethylbenzene*	<0.050	0.050	05/14/2020	ND	1.92	95.9	2.00	2.31	
Total Xylenes*	<0.150	0.150	05/14/2020	ND	5.50	91.7	6.00	2.36	
Total BTEX	<0.300	0.300	05/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/14/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2020	ND	200	100	200	1.78	
DRO >C10-C28*	<10.0	10.0	05/15/2020	ND	201	100	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	05/15/2020	ND					
Surrogate: 1-Chlorooctane	94.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	92.6	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 05/14/2020 Sampling Date: 05/09/2020

Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

05/14/2020

Project Location: NOT GIVEN

26400

16.0

Sample ID: W - 13 0-4' (H001326-18)

Chloride

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

ND

416

104

400

0.00

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 05/14/2020 Sampling Date: 05/09/2020

Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MS

Project Location: NOT GIVEN

Sample ID: W - 14 0-4' (H001326-19)

BTEX 8021B

	9	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2020	ND	1.91	95.7	2.00	2.44	
Toluene*	<0.050	0.050	05/14/2020	ND	1.89	94.4	2.00	2.03	
Ethylbenzene*	<0.050	0.050	05/14/2020	ND	1.92	95.9	2.00	2.31	
Total Xylenes*	<0.150	0.150	05/14/2020	ND	5.50	91.7	6.00	2.36	
Total BTEX	<0.300	0.300	05/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	05/14/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2020	ND	200	100	200	1.78	
DRO >C10-C28*	67.2	10.0	05/15/2020	ND	201	100	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	05/15/2020	ND					
Surrogate: 1-Chlorooctane	94.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	96.0	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/14/2020 Sampling Date: 05/09/2020

Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Sample Received By: Project Number: MSU 551H Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: W - 15 0-1.5' (H001326-20)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	05/14/2020	ND	1.91	95.7	2.00	2.44	
Toluene*	< 0.050	0.050	05/14/2020	ND	1.89	94.4	2.00	2.03	
Ethylbenzene*	< 0.050	0.050	05/14/2020	ND	1.92	95.9	2.00	2.31	
Total Xylenes*	< 0.150	0.150	05/14/2020	ND	5.50	91.7	6.00	2.36	
Total BTEX	<0.300	0.300	05/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/14/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2020	ND	200	100	200	1.78	
DRO >C10-C28*	<10.0	10.0	05/15/2020	ND	201	100	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	05/15/2020	ND					
Surrogate: 1-Chlorooctane	92.1 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	92.2 9	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Analyzed By: MS

Received: 05/14/2020 Sampling Date: 05/11/2020 Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

mg/kg

Sample ID: W - 15 + 4-0' (H001326-21)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2020	ND	1.91	95.7	2.00	2.44	
Toluene*	< 0.050	0.050	05/14/2020	ND	1.89	94.4	2.00	2.03	
Ethylbenzene*	<0.050	0.050	05/14/2020	ND	1.92	95.9	2.00	2.31	
Total Xylenes*	<0.150	0.150	05/14/2020	ND	5.50	91.7	6.00	2.36	
Total BTEX	<0.300	0.300	05/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.6	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/14/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2020	ND	200	100	200	1.78	
DRO >C10-C28*	<10.0	10.0	05/15/2020	ND	201	100	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	05/15/2020	ND					
Surrogate: 1-Chlorooctane	94.4 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	90.8	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received: 05/14/2020 Sampling Date: 05/11/2020 Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: W - 16 0-2.5' (H001326-22)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2020	ND	1.91	95.7	2.00	2.44	
Toluene*	<0.050	0.050	05/14/2020	ND	1.89	94.4	2.00	2.03	
Ethylbenzene*	< 0.050	0.050	05/14/2020	ND	1.92	95.9	2.00	2.31	
Total Xylenes*	<0.150	0.150	05/14/2020	ND	5.50	91.7	6.00	2.36	
Total BTEX	<0.300	0.300	05/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	05/14/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2020	ND	200	100	200	1.78	
DRO >C10-C28*	<10.0	10.0	05/15/2020	ND	201	100	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	05/15/2020	ND					
Surrogate: 1-Chlorooctane	94.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	95.1	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received: 05/14/2020 Sampling Date: 05/11/2020

Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Sample Received By: Project Number: MSU 551H Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: W - 16 + 4-0' (H001326-23)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2020	ND	1.91	95.7	2.00	2.44	
Toluene*	< 0.050	0.050	05/14/2020	ND	1.89	94.4	2.00	2.03	
Ethylbenzene*	< 0.050	0.050	05/14/2020	ND	1.92	95.9	2.00	2.31	
Total Xylenes*	<0.150	0.150	05/14/2020	ND	5.50	91.7	6.00	2.36	
Total BTEX	<0.300	0.300	05/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/15/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2020	ND	200	100	200	1.78	
DRO >C10-C28*	<10.0	10.0	05/15/2020	ND	201	100	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	05/15/2020	ND					
Surrogate: 1-Chlorooctane	98.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	99.1	% 42.2-15	6						

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Celecy D. Keene



Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 05/14/2020 Sampling Date: 05/11/2020

Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MS

Project Location: NOT GIVEN

Sample ID: W - 17 0-4' (H001326-24)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
,			,			,	·		Qualifier
Benzene*	<0.050	0.050	05/14/2020	ND	1.91	95.7	2.00	2.44	
Toluene*	< 0.050	0.050	05/14/2020	ND	1.89	94.4	2.00	2.03	
Ethylbenzene*	<0.050	0.050	05/14/2020	ND	1.92	95.9	2.00	2.31	
Total Xylenes*	<0.150	0.150	05/14/2020	ND	5.50	91.7	6.00	2.36	
Total BTEX	<0.300	0.300	05/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/15/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2020	ND	200	100	200	1.78	
DRO >C10-C28*	<10.0	10.0	05/15/2020	ND	201	100	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	05/15/2020	ND					
Surrogate: 1-Chlorooctane	83.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	82.6	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/14/2020 Sampling Date: 05/11/2020

Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: W - 17 + 4-0' (H001326-25)

Chloride, SM4500Cl-B mg/kg Analyzed By: GM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 48.0 16.0 05/15/2020 ND 416 104 400 0.00

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Celey D. Keene



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received: 05/14/2020 Sampling Date: 05/11/2020

Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Sample Received By: Project Number: MSU 551H Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: W - 18 0-4' (H001326-26)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2020	ND	1.91	95.7	2.00	2.44	
Toluene*	<0.050	0.050	05/14/2020	ND	1.89	94.4	2.00	2.03	
Ethylbenzene*	<0.050	0.050	05/14/2020	ND	1.92	95.9	2.00	2.31	
Total Xylenes*	<0.150	0.150	05/14/2020	ND	5.50	91.7	6.00	2.36	
Total BTEX	<0.300	0.300	05/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	05/15/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2020	ND	200	100	200	1.78	
DRO >C10-C28*	<10.0	10.0	05/15/2020	ND	201	100	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	05/15/2020	ND					
Surrogate: 1-Chlorooctane	94.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.8	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/14/2020 Sampling Date: 05/12/2020

Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: W - 18 + 4-0' (H001326-27)

Chloride, SM4500Cl-B mg/kg Analyzed By: GM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 32.0 16.0 05/15/2020 ND 416 104 400 0.00

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/14/2020 Sampling Date: 05/12/2020

Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Sample Received By: Project Number: MSU 551H Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: W - 19 0-4' (H001326-28)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2020	ND	1.91	95.7	2.00	2.44	
Toluene*	<0.050	0.050	05/14/2020	ND	1.89	94.4	2.00	2.03	
Ethylbenzene*	<0.050	0.050	05/14/2020	ND	1.92	95.9	2.00	2.31	
Total Xylenes*	<0.150	0.150	05/14/2020	ND	5.50	91.7	6.00	2.36	
Total BTEX	<0.300	0.300	05/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/15/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2020	ND	200	100	200	1.78	
DRO >C10-C28*	<10.0	10.0	05/15/2020	ND	201	100	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	05/15/2020	ND					
Surrogate: 1-Chlorooctane	92.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	90.6	% 42.2-15	6						

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Celecy D. Keene



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/14/2020 Sampling Date: 05/12/2020

Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MC

Project Location: NOT GIVEN

Sample ID: W - 20 0-3' (H001326-29)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2020	ND	1.89	94.7	2.00	3.58	
Toluene*	<0.050	0.050	05/15/2020	ND	1.93	96.5	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/15/2020	ND	1.99	99.7	2.00	3.54	
Total Xylenes*	<0.150	0.150	05/15/2020	ND	5.83	97.1	6.00	3.51	
Total BTEX	<0.300	0.300	05/15/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/15/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2020	ND	200	100	200	1.78	
DRO >C10-C28*	13.8	10.0	05/15/2020	ND	201	100	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	05/15/2020	ND					
Surrogate: 1-Chlorooctane	103	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	104	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/14/2020 Sampling Date: 05/12/2020

Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MC

Project Location: NOT GIVEN

Sample ID: W - 21 0-1' (H001326-30)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2020	ND	1.89	94.7	2.00	3.58	
Toluene*	<0.050	0.050	05/15/2020	ND	1.93	96.5	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/15/2020	ND	1.99	99.7	2.00	3.54	
Total Xylenes*	<0.150	0.150	05/15/2020	ND	5.83	97.1	6.00	3.51	
Total BTEX	<0.300	0.300	05/15/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	05/15/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2020	ND	186	92.8	200	2.94	
DRO >C10-C28*	<10.0	10.0	05/15/2020	ND	178	89.1	200	7.88	
EXT DRO >C28-C36	<10.0	10.0	05/15/2020	ND					
Surrogate: 1-Chlorooctane	98.6	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	99.3	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 05/14/2020 Sampling Date: 05/12/2020

Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: W - 22 0-2' (H001326-31)

Chloride, SM4500Cl-B Analyzed By: GM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 1380 16.0 05/15/2020 ND 416 104 400 0.00

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Celey D. Keine



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/14/2020 Sampling Date: 05/12/2020

Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Project Number: MSU 551H Sample Received By: Kelly Jacobson

Applyzod By: MC

Project Location: NOT GIVEN

Sample ID: W - 23 0-2' (H001326-32)

RTFY 8021R

B1EX 8021B	mg,	r Kg	Апануге	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2020	ND	1.89	94.7	2.00	3.58	
Toluene*	<0.050	0.050	05/15/2020	ND	1.93	96.5	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/15/2020	ND	1.99	99.7	2.00	3.54	
Total Xylenes*	<0.150	0.150	05/15/2020	ND	5.83	97.1	6.00	3.51	
Total BTEX	<0.300	0.300	05/15/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	05/15/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2020	ND	186	92.8	200	2.94	
DRO >C10-C28*	33.1	10.0	05/15/2020	ND	178	89.1	200	7.88	
EXT DRO >C28-C36	<10.0	10.0	05/15/2020	ND					
Surrogate: 1-Chlorooctane	102	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	103	% 42.2-15	6						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 05/14/2020 Sampling Date: 05/12/2020

Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

05/15/2020

Project Location: NOT GIVEN

688

16.0

Sample ID: W - 24 0-2.5' (H001326-33)

Chloride

Analyte Result Reporting Limit Analyzed By: GM

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

ND

416

104

400

0.00

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 05/14/2020 Sampling Date: 05/12/2020

Reported: 05/18/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MC

Project Location: NOT GIVEN

Sample ID: W - 25 0-4' (H001326-34)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2020	ND	1.89	94.7	2.00	3.58	
Toluene*	<0.050	0.050	05/15/2020	ND	1.93	96.5	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/15/2020	ND	1.99	99.7	2.00	3.54	
Total Xylenes*	<0.150	0.150	05/15/2020	ND	5.83	97.1	6.00	3.51	
Total BTEX	<0.300	0.300	05/15/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	05/15/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2020	ND	186	92.8	200	2.94	
DRO >C10-C28*	<10.0	10.0	05/15/2020	ND	178	89.1	200	7.88	
EXT DRO >C28-C36	<10.0	10.0	05/15/2020	ND					
Surrogate: 1-Chlorooctane	98.5	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	99.2	% 42.2-15	6						

Cardinal Laboratories *=Accredited Analyte

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Celeg & Freene



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

Relinquished By

Relinquished By

S= 4-20

Received By:

Phone Result: Fax Result: REMARKS:

☐ Yes

No o

Add'I Fax #:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:	R.T. Hicks Consultants	onsultants					100	B//L 70		Mod			ANALYSIS	REQUEST	
Project Manager:		rker				P.O. #:	* 250	155 11	H						
Address: Or	On-File					Comp	Company: R.T.		S						
City:		State:	Zip:	3-3		Attn:	50	Send to							, ,
Phone #:		Fax #:				Address:		andrew@rthicks	thicks						
Project#:		Project Owner:	7			City:	0	consult.com	m						
Project Name:	Advance L	Energy				State:		Zip:			(0)				
Project Location:	MSU 5	HI				Phone #:	中:				MF				
Sampler Name:	Jacob Saenz					Fax #:	••				0+	EX		_	
FOR LAB USE ONLY					MATRIX	P	PRESERV.	SAMPLING	NG		R	BTI			
Lab I.D.	Sample I.D.	le I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE:	CE / COOL OTHER :	DATE	TIME	CHLORIDE	TPH (GRO+D	BENZENE, B			
	10-M	14-0-1	5		×		×	5/8/20	Wyb.	×	R	P			
2	10-1	0-17	Bin .	ta.	-			_ :	9:30%	_		1			
W	80-N	+4-051							4:45-1		2	2			
4	E0-M	+4.0F1							10		7	X			
7	NO-04	44-0FT							10:15		×	γ.			
6	50-M	0-45							10. m		×.	×			
4	2000	0-407	Ì						110m	4	4	X			
×I	W-07	44-057							11.15						
9	10-M	0-4-1	Ţ	-	_		`		11.304	-	8	8			
70	80-M	140-5FT	€	4	~		•	<	in fi	<	R	8			

Sampler - UPS - Bus - Other:

Délivered By:

(Circle One) - 3.7c

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY:

Date: Time:

Received By:

Relinquished By:

と呼るけ

S-14-2

Received By:

Phone Result: Fax Result: REMARKS:

☐ Yes

No No

Add'l Phone #: Add'l Fax #:

Date: Time:

Received By:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

				A Charles on the second second		Chicago and Chicago and Chicago				ANIAI VOIC	DECLERA	
Project Manager	R. I. Hicks Consultants			# 00	District 10	127	-	-	-			
Address: On-File	File			ny:	R.T. Hicks							
City:	State:	Zip:		Attn: S	Send to							
Phone #:	Fax#:			Address: a	andrew@rthicks	hicks						
Project #:	Project Owner:	er		City: c	consult.com	1)				
Project Name:				State:	Zip:			RO				
Project Location:				Phone #:				-MI				
Sampler Name:	Jacob Saenz			Fax #:				0+	EX			
FOR LAB USE ONLY			MATRIX	PRESERV.	SAMPLING	ត		DR	ВТ			
Lab I.D.	Sample I.D.	G)RAB OR (C)OMP	GROUNDWATER WASTEWATER SOIL DIL	SLUDGE OTHER: ACID/BASE: CE / COOL OTHER:	DATE	TIME	CHLORIDE	TPH (GRO+)	BENZENE,			
	マークタ ローエア	-	٤,	×	5/8/00	12:6	~	×	X			
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7	0				-	9:150						
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7	1-10-1-1					10 30m		×	X			
4	レック・イナ カーノグ	Ì				10-40 L		X	X			
N. C.	というのいいで					10:80						
	1-10 PI-R					Mar		×	×			
	01 77	2	(2)	4	<	200		X	X			

Sampler - UPS - Bus - Other:

Deliveréd By:

(Circle One)

-3.70

Sample Condition
Cook Intact
Yes Yes
No No

CHECKED BY:

Released to Imaging: 7/27/2021 1:32:26 PM



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Mariand, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

R.T. Hicks Consultants	And the second s	
Project Manager: Andrew Parker	P.O. #	
File	Company: R.T. Hicks	
	Attn: Send to	
Phone #: Fax #:	Address: andrew@rthicks	
Project #: Project Owner:	city: consult.com	
ame: Adverse Ene	State: Zip:	RO
9	Phone #:	-
Sampler Name: Jacob Saenz	Fax#:	
	MATRIX PRESERV. SAMPLING	DR
Lab I.D. Sample I.D. (G)RAB OR (C)OMP # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	CHLORIDE TPH (GRO+
	x x 5/1/20	XXX
2 W-16 0-2-5-7 11	1 1000	×××
734-16 +4-057	1/0-1	XX
24w-17 0-4FT	Idea	\(\times \times \)
75W-17 +4-9FT	2,3%	
111-0 81-11	U los	×
11 720-6+ 81-1120	\$/12/00 Bum	
1 2 M - 10 0 - 1 - 1	8:30m	8 8
1-15- 4- 51-M B		2
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive ramedy for any dains arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All clients produces and any other causes whatsoever shall be deemed vavoed unless made in writing and received by Cardinal within 30 days after completion of the applicable	Ing whether based in contract or tort, shall be limited to the amount paid by the client (or my whether based in writing and received by Cardinal within 30 days after completion of	plicable
out of or related to the performance of services hereunder by Carr	rdless of whether such claim is based upon any of the above stated reasons or otherw	TAS I NO
Relinquished By: SALO SHE IN TIME: H-70 Relinquished By: Date: Received	Received By: Received By: Received By:	S: No Add'I Fax#:
Time:	1	
7.4.5 (end elocity)	Sample Condition CHECKED BY: Cool Intact (Initials)	
Sampler - UPS - Bus - Other: #113	No No 1/3	



101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Relinquished By: Sampler Name: Project Location: Project Name: Project #: Phone #: Address: Project Manager: Relinquished By: nalyses. All claims including those for negligence and any other causa whatsoever shall be deemed walved unless made in writing and receivervice. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of FOR LAB USE ONLY Lab I.D Fas On-File (575) 393-2326 FAX (575) 393-2476 大心さ W-26 Jacob Saenz るない R.T. Hicks Consultants Andrew Parker Sample I.D. 个下 Sate: 14-20 Fax #: フーグドイ I Project Owner: のつからた のつみで 0 State: Advance Zip: 6 (G)RAB OR (C)OMP Received By: Received By: # CONTAINERS GROUNDWATER Energy WASTEWATER MATRIX X SOIL OIL SLUDGE State: City: Attn: P.O. #: Fax #: Phone #: OTHER: Address: Company: PRESERV shall be limited to the annual person of the applicable red of control within 30 days after completion of the applicable red or loss of profits incurred by client, its subsidiaries, dise, or loss of profits incurred by client, its subsidiaries. ACID/BASE: ICE / COOL MSU BILL TO OTHER: R.T. andrew@rthicks Send to consult.com Zip: DATE SAMPLING 1m/m Hicks Phone Result: Fax Result: REMARKS: 11-30m \$ 30g. 1/30 1200 TIME 03 CHLORIDE TPH (GRO+DRO+MRO) × Yes 2 BENZENE, BTEX O No ANALYSIS Add'I Fax #: Add'l Phone #: REQUEST

Sampler - UPS - Bus - Other:

Déliyéred By:

(Circle One) -3.7 c

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY:

Time:



May 21, 2020

ANDREW PARKER
R T HICKS CONSULTANTS
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE, NM 87104

RE: ADVANCE ENERGY

Enclosed are the results of analyses for samples received by the laboratory on 05/20/20 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/20/2020 Sampling Date: 05/20/2020

Reported: 05/21/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551 H Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: W - 07 4.5' (H001386-01)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

Chloride 80.0 16.0 05/21/2020 ND 384 96.0 400 8.00

Sample ID: W - 09 0-4.5' (H001386-02)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 2600 16.0 05/21/2020 ND 384 96.0 400 8.00

Sample ID: W - 09 4.5' (H001386-03)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 176 16.0 05/21/2020 ND 400 8.00 384 96.0

Cardinal Laboratories *=Accredited Analyte

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Celey & Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Page 4 of 4



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476



May 28, 2020

ANDREW PARKER
R T HICKS CONSULTANTS
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE, NM 87104

RE: MSU 551H

Enclosed are the results of analyses for samples received by the laboratory on 05/22/20 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



100

400

3.92

Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/22/2020 Sampling Date: 05/21/2020

05/26/2020

Reported: 05/28/2020 Sampling Type: Soil

Project Name: MSU 551H Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Kelly Jacobson

ADVANCE ENERGY Project Location:

144

16.0

Sample ID: W - 10 4.5 FT (H001422-01)

Chloride

Chloride, SM4500Cl-B Analyzed By: GM Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Oualifier Analyte Result 400

ND

Sample ID: W - 19 +4 - 0 FT (H001422-02)

Chloride, SM4500Cl-B Analyzed By: GM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 32.0 16.0 05/26/2020 ND 400 100 400 3.92

Cardinal Laboratories *=Accredited Analyte

Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 7/27/2021 1:32:26 PM

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name	R.T. Hicks Cons	ultants									ILL TO						ANA	LYSIS	S RE	QUE	ST		
Project Manage	r: Andrew Parker										54 55.												
Address: Or	n-File							Co	mpa	ny:	R.T. Hic	ks											
City:		State:	Zip	:				-	tn:	_	Send to												
hone #:		Fax #:						Ad	ldres	s:	andrew@	rthicks								5			
Project #:		Project Owner	:					Ci	ty:	- 3	consult.co	m											
Project Name:	Type Advan	ice Energy	1					St	ate:		Zip:			80									
roject Location	n: MSU 551	H						Ph	one	#:				Z	1.4					1	,		
Sampler Name:	Jacob Saenz							Fa	x #:					ō	BTEX								
FOR LAB USE ONLY			٥.			MAT	RIX	_	PRE	SER	/ SAMPL	ING		DR	BT								
Lab I.D.	Sample I	.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	OTHER:	ACID/BASE:	ICE / COOL	DATE	TIME	CHLORIDE	TPH (GRO+DRO+MRO)	BENZENE,								and the second
1 mill	W-10	4.5 7	1	#	0 5	X	0 0	0	<	$\frac{3}{2}$	cholo	gum	X							1			-
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								-															_
								1															_
							-	+					-			-	-	-	-			-	-
analyses. All claims includi service. In no event shall C affiliates or successors aris Relinquished B		equental damages, including of services hereunder by C	deeme withou ardina	d waive ut limita I, regar	ed unless	made in ness inte hether s	writing a	nd tec	eived by of use, o	Cardin or loss o	within 30 days a profits incurred by	ter completion of client, its subsidireasons or otherw Phone Re Fax Resu	the applica aries, se. esult: It:	able Ye		No No		Phone Fax #:	#:				
Relinquished B	SHENZ: (Circle One) 3		Re /l-		/ed By	mple of I	Condi	ition			KED BY:	REMARK	J.										

[†] Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



May 28, 2020

ANDREW PARKER
R T HICKS CONSULTANTS
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE, NM 87104

RE: ADVANCE ENERGY

Enclosed are the results of analyses for samples received by the laboratory on 05/27/20 8:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keine

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/26/2020

Reported: 05/28/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 18 C1 4.3' (H001427-01)

Chloride, SM4500Cl-B Analyzed By: GM Reporting Limit Analyzed Method Blank BS % Recovery True Value OC RPD Oualifier Analyte Result Chloride 15600 16.0 05/27/2020 ND 416 104 400 3.77

Sample ID: B - 19 C1 4.3' (H001427-02)

Chloride, SM4500Cl-B Analyzed By: GM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 25800 16.0 05/27/2020 ND 416 104 400 3.77

Sample ID: B - 21 C1 4.2' (H001427-03)

Chloride, SM4500Cl-B Analyzed By: GM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 13800 16.0 05/27/2020 0.00 ND 416 104 400 QM-07

Sample ID: B - 22 C1 4.2' (H001427-04)

Chloride, SM4500Cl-B mg/kg Analyzed By: GM Reporting Limit Analyzed Method Blank True Value QC RPD Qualifier Analyte Result BS % Recovery Chloride 13600 16.0 05/27/2020 ND 416 104 400 0.00

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/26/2020

Reported: 05/28/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Sample Received By: Project Number: MSU 551H Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 26 C1 2.5' (H001427-05)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	05/27/2020	ND	416	104	400	0.00	

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Celey D. Keine



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: R	R.T. Hicks Consultants		BILL TO			ANALYSIS REQUEST
Project Manager: ¿	Andrew Parker		P.O. #: /USU 55)	_		- 1
Address: On-File			ny: R.T	SS		
City:	State:	Zip:	Attn: Send to			
Phone #:	Fax 排:		Address: andrew@rthicks	rthicks		
Project #:	Project Owner:			m		
Project Name: MSU	551 H		•		.O)	
n:	Advance Emery		*		MIR	
Sampler Name: Jac	Jacob Saenz		Fax #:			
FOR LAB USE ONLY			PRESERV. SAMPLING			
Lab I.D. H001473	Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	CHLORIDE	TPH (GRO+ BENZENE,	
- F	180 4.3	×	.×.	17:00 X		
2001	19 C1 4.3 F1			X Si.hi		
- N	77 0 47			in it		
0	-26 C1 2.5 FT	A A	K	X 8.71		
PLEASE NOTE: Liability and Damage analyses. All claims including those fo service. In no event shall Cardinal bel affiliatos or successors arising out of or	PLEASE NOTE: Liability and Damages. Cordinate liability and client's exclusive remedy for any claim arising whether based in contract or text, shall be limited to the amount paid by the client for he maybees. All claims including those for negligence and any other cause whatsoaver shall be deemed walved unless nated in writing and occolved by Cardinal within 30 days after completion of the applicabile service. In no event shall Cardinal be liabile for incleded and or consequented damages, including without limitations, business interruptions, less offices or loss of profits incurred by client, its subsidiaries, affiliates or successor acting out of or related to the performance of services descended by Cordinal, regardless of whether such claim is based upon any of the peaked passed on a consequence or charged.	y claim anising whether based in contract yy claim anising whether based in contract bearned walved unless made in writing and without limitation, business interruptions, i ardinal, regardless of whether such claim in	or tort, shall be limited to the amount pair or tort, shall be limited to the amount pair or colvoid by Cardinal within 30 days after loss of Afse, or loss of prefits incurred by to be shaded to be shaded to the	d by the client for the rempletion of the applicable client, its subsidiaries, asons or otherwise.		
Relinquished By:	Pate: 74-22	Received By:		ult	☐ Yes ☐ N	No Add'l Phone #: No Add'l Fax #:
Relinquished By:	Date: Time:	Received By:				
Delivered By: (Circ	(Circle One) 5.86	Sample Condition	on CHECKED BY:			
Sampler - UPS - Bus	Bus - Other:	S DE	_			

Released to Imaging: 7/27/2021 1:32:26 PM



May 29, 2020

ANDREW PARKER
R T HICKS CONSULTANTS
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE, NM 87104

RE: ADVANCE ENERGY

Enclosed are the results of analyses for samples received by the laboratory on 05/27/20 8:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keine

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/25/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MS

Project Location: NOT GIVEN

mg/kg

Sample ID: W - 27 0-1' (H001428-01)

BTEX 8021B

DIEX GOLLD	mg/kg Analyz			u 27: 1:0					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2020	ND	2.06	103	2.00	2.82	
Toluene*	<0.050	0.050	05/27/2020	ND	2.00	100	2.00	2.77	
Ethylbenzene*	<0.050	0.050	05/27/2020	ND	2.01	100	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/27/2020	ND	5.71	95.2	6.00	3.21	
Total BTEX	<0.300	0.300	05/27/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2020	ND	188	93.9	200	6.40	
DRO >C10-C28*	23.4	10.0	05/27/2020	ND	188	93.8	200	6.08	
EXT DRO >C28-C36	<10.0	10.0	05/27/2020	ND					
Surrogate: 1-Chlorooctane	93.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	98.6	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/25/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MS

Project Location: NOT GIVEN

mg/kg

Sample ID: W - 31 1-4' (H001428-02)

BTEX 8021B

	9/9		7,2-62 276						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2020	ND	2.06	103	2.00	2.82	
Toluene*	<0.050	0.050	05/27/2020	ND	2.00	100	2.00	2.77	
Ethylbenzene*	<0.050	0.050	05/27/2020	ND	2.01	100	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/27/2020	ND	5.71	95.2	6.00	3.21	
Total BTEX	<0.300	0.300	05/27/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 % 73.3-12		9						
Chloride, SM4500CI-B	mg/kg		Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	05/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2020	ND	192	96.2	200	8.14	
DRO >C10-C28*	<10.0	10.0	05/28/2020	ND	190	95.2	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	05/28/2020	ND					
Surrogate: 1-Chlorooctane	87.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	88.3	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Analyzed By: MC

Received: 05/27/2020 Sampling Date: 05/25/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: W - 33 0-4' (H001428-03)

RTFY 8021R

BIEX 8021B	тд/кд		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2020	ND	2.01	100	2.00	4.14	
Toluene*	<0.050	0.050	05/27/2020	ND	1.95	97.3	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/27/2020	ND	1.96	98.1	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/27/2020	ND	5.62	93.6	6.00	3.75	
Total BTEX	<0.300	0.300	05/27/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2020	ND	192	96.2	200	8.14	
DRO >C10-C28*	<10.0	10.0	05/28/2020	ND	190	95.2	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	05/28/2020	ND					
Surrogate: 1-Chlorooctane	86.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	89.6	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

NONE

Received: 05/27/2020 Sampling Date: 05/25/2020

05/28/2020

Reported: Sampling Type: Soil 05/29/2020

Fax To:

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

112

16.0

Sample ID: W - 34 0-1' (H001428-04)

Chloride, SM4500Cl-B

Chloride

Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

ND

416

104

400

0.00

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Celeg D. Keine



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/25/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MC

Project Location: NOT GIVEN

Sample ID: W - 35 1-4' (H001428-05)

RTFY 8021R

BIEX 8021B	тд/кд		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2020	ND	2.01	100	2.00	4.14	
Toluene*	<0.050	0.050	05/27/2020	ND	1.95	97.3	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/27/2020	ND	1.96	98.1	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/27/2020	ND	5.62	93.6	6.00	3.75	
Total BTEX	<0.300	0.300	05/27/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2020	ND	192	96.2	200	8.14	
DRO >C10-C28*	<10.0	10.0	05/28/2020	ND	190	95.2	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	05/28/2020	ND					
Surrogate: 1-Chlorooctane	91.1	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	93.6	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

 Received:
 05/27/2020
 Sampling Date:
 05/25/2020

 Reported:
 05/29/2020
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 01 1' (H001428-06)

BTEX 8021B	mg/kg		Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2020	ND	2.01	100	2.00	4.14	
Toluene*	<0.050	0.050	05/27/2020	ND	1.95	97.3	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/27/2020	ND	1.96	98.1	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/27/2020	ND	5.62	93.6	6.00	3.75	
Total BTEX	<0.300	0.300	05/27/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2020	ND	192	96.2	200	8.14	
DRO >C10-C28*	<10.0	10.0	05/28/2020	ND	190	95.2	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	05/28/2020	ND					
Surrogate: 1-Chlorooctane	90.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	91.1	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/25/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MS

Project Location: NOT GIVEN

mg/kg

Sample ID: B - 02 1' (H001428-07)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2020	ND	2.01	100	2.00	4.14	
Toluene*	<0.050	0.050	05/27/2020	ND	1.95	97.3	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/27/2020	ND	1.96	98.1	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/27/2020	ND	5.62	93.6	6.00	3.75	
Total BTEX	<0.300	0.300	05/27/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2020	ND	192	96.2	200	8.14	
DRO >C10-C28*	<10.0	10.0	05/28/2020	ND	190	95.2	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	05/28/2020	ND					
Surrogate: 1-Chlorooctane	87.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	90.4	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/25/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Sample Received By: Project Number: MSU 551H Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 03 4.2' (H001428-08)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/28/2020	ND	416	104	400	0.00	

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/25/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 04 4.2' (H001428-09)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2020	ND	2.01	100	2.00	4.14	
Toluene*	<0.050	0.050	05/27/2020	ND	1.95	97.3	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/27/2020	ND	1.96	98.1	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/27/2020	ND	5.62	93.6	6.00	3.75	
Total BTEX	<0.300	0.300	05/27/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2020	ND	192	96.2	200	8.14	
DRO >C10-C28*	<10.0	10.0	05/28/2020	ND	190	95.2	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	05/28/2020	ND					
Surrogate: 1-Chlorooctane	82.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	84.9	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/25/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 05 4.2' (H001428-10)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 32.0 16.0 05/28/2020 ND 416 104 400 0.00

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/25/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MS

Project Location: NOT GIVEN

Sample ID: B - 06 4.2' (H001428-11)

BTEX 8021B

	9,	9	7	7					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2020	ND	2.01	100	2.00	4.14	
Toluene*	<0.050	0.050	05/27/2020	ND	1.95	97.3	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/27/2020	ND	1.96	98.1	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/27/2020	ND	5.62	93.6	6.00	3.75	
Total BTEX	<0.300	0.300	05/27/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2020	ND	192	96.2	200	8.14	
DRO >C10-C28*	<10.0	10.0	05/28/2020	ND	190	95.2	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	05/28/2020	ND					
Surrogate: 1-Chlorooctane	89.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	90.6	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/25/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 08 E 0.1' (H001428-12)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 272 16.0 05/28/2020 ND 416 104 400 0.00

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Analyzed By: MS

 Received:
 05/27/2020
 Sampling Date:
 05/25/2020

 Reported:
 05/29/2020
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 08 W 0.1' (H001428-13)

BTEX 8021B

	9,	9	7	7					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2020	ND	2.01	100	2.00	4.14	
Toluene*	<0.050	0.050	05/27/2020	ND	1.95	97.3	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/27/2020	ND	1.96	98.1	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/27/2020	ND	5.62	93.6	6.00	3.75	
Total BTEX	<0.300	0.300	05/27/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	05/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2020	ND	192	96.2	200	8.14	
DRO >C10-C28*	<10.0	10.0	05/28/2020	ND	190	95.2	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	05/28/2020	ND					
Surrogate: 1-Chlorooctane	93.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	96.1	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/25/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MC

Project Location: NOT GIVEN

Sample ID: B - 09 2.5' (H001428-14)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2020	ND	2.01	100	2.00	4.14	
Toluene*	<0.050	0.050	05/27/2020	ND	1.95	97.3	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/27/2020	ND	1.96	98.1	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/27/2020	ND	5.62	93.6	6.00	3.75	
Total BTEX	<0.300	0.300	05/27/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2020	ND	192	96.2	200	8.14	
DRO >C10-C28*	<10.0	10.0	05/28/2020	ND	190	95.2	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	05/28/2020	ND					
Surrogate: 1-Chlorooctane	83.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	85.7	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/25/2020 Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Project Number: Sample Received By: MSU 551H Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 10 2.5' (H001428-15)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2020	ND	2.01	100	2.00	4.14	
Toluene*	<0.050	0.050	05/27/2020	ND	1.95	97.3	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/27/2020	ND	1.96	98.1	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/27/2020	ND	5.62	93.6	6.00	3.75	
Total BTEX	<0.300	0.300	05/27/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2020	ND	192	96.2	200	8.14	
DRO >C10-C28*	<10.0	10.0	05/28/2020	ND	190	95.2	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	05/28/2020	ND					
Surrogate: 1-Chlorooctane	82.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	83.2	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/26/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Sample Received By: Project Number: MSU 551H Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 11 1.5' (H001428-16)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/28/2020	ND	416	104	400	0.00	

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/26/2020 Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Project Number: Sample Received By: MSU 551H Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 12 1.5' (H001428-17)

BTEX 8021B	mg	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2020	ND	2.01	100	2.00	4.14	
Toluene*	<0.050	0.050	05/27/2020	ND	1.95	97.3	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/27/2020	ND	1.96	98.1	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/27/2020	ND	5.62	93.6	6.00	3.75	
Total BTEX	<0.300	0.300	05/27/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	05/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2020	ND	192	96.2	200	8.14	
DRO >C10-C28*	<10.0	10.0	05/28/2020	ND	190	95.2	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	05/28/2020	ND					
Surrogate: 1-Chlorooctane	89.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	91.8	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/26/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MC

Project Location: NOT GIVEN

Sample ID: B - 13 1.5' (H001428-18)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2020	ND	2.01	100	2.00	4.14	
Toluene*	<0.050	0.050	05/28/2020	ND	1.95	97.3	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/28/2020	ND	1.96	98.1	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/28/2020	ND	5.62	93.6	6.00	3.75	
Total BTEX	<0.300	0.300	05/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3080	16.0	05/28/2020	ND	400	100	400	4.08	QM-07
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2020	ND	192	96.2	200	8.14	
DRO >C10-C28*	343	10.0	05/28/2020	ND	190	95.2	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	05/28/2020	ND					
Surrogate: 1-Chlorooctane	88.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	99.7	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/26/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Sample Received By: Project Number: MSU 551H Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 14 4.3' (H001428-19)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	05/28/2020	ND	400	100	400	4.08	

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/26/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 15 4.3' (H001428-20)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2020	ND	2.01	100	2.00	4.14	
Toluene*	<0.050	0.050	05/28/2020	ND	1.95	97.3	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/28/2020	ND	1.96	98.1	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/28/2020	ND	5.62	93.6	6.00	3.75	
Total BTEX	<0.300	0.300	05/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/28/2020	ND	400	100	400	4.08	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2020	ND	192	96.2	200	8.14	
DRO >C10-C28*	<10.0	10.0	05/28/2020	ND	190	95.2	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	05/28/2020	ND					
Surrogate: 1-Chlorooctane	91.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	92.6	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/26/2020 Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 16 4.3' (H001428-21)

BTEX 8021B	mg/	kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2020	ND	2.01	100	2.00	4.14	
Toluene*	<0.050	0.050	05/28/2020	ND	1.95	97.3	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/28/2020	ND	1.96	98.1	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/28/2020	ND	5.62	93.6	6.00	3.75	
Total BTEX	<0.300	0.300	05/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	05/28/2020	ND	400	100	400	4.08	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2020	ND	192	96.2	200	8.14	
DRO >C10-C28*	<10.0	10.0	05/28/2020	ND	190	95.2	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	05/28/2020	ND					
Surrogate: 1-Chlorooctane	90.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.4	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/26/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 17 4.3' (H001428-22)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2020	ND	2.01	100	2.00	4.14	
Toluene*	<0.050	0.050	05/28/2020	ND	1.95	97.3	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/28/2020	ND	1.96	98.1	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/28/2020	ND	5.62	93.6	6.00	3.75	
Total BTEX	<0.300	0.300	05/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 5	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/28/2020	ND	400	100	400	4.08	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2020	ND	192	96.2	200	8.14	
DRO >C10-C28*	<10.0	10.0	05/28/2020	ND	190	95.2	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	05/28/2020	ND					
Surrogate: 1-Chlorooctane	90.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	91.1	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/26/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MC

Project Location: NOT GIVEN

Sample ID: B - 18 4.3' (H001428-23)

RTFY 8021R

BIEX 8021B	тд/кд		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2020	ND	2.01	100	2.00	4.14	
Toluene*	<0.050	0.050	05/28/2020	ND	1.95	97.3	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/28/2020	ND	1.96	98.1	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/28/2020	ND	5.62	93.6	6.00	3.75	
Total BTEX	<0.300	0.300	05/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/28/2020	ND	400	100	400	4.08	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2020	ND	192	96.2	200	8.14	
DRO >C10-C28*	<10.0	10.0	05/28/2020	ND	190	95.2	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	05/28/2020	ND					
Surrogate: 1-Chlorooctane	96.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	97.4	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/26/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Sample Received By: Project Number: MSU 551H Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 19 4.3' (H001428-24)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8660	16.0	05/28/2020	ND	400	100	400	4.08	

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/26/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 20 4.2' (H001428-25)

BTEX 8021B	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2020	ND	2.01	100	2.00	4.14	
Toluene*	<0.050	0.050	05/28/2020	ND	1.95	97.3	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/28/2020	ND	1.96	98.1	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/28/2020	ND	5.62	93.6	6.00	3.75	
Total BTEX	<0.300	0.300	05/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/28/2020	ND	400	100	400	4.08	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2020	ND	192	96.2	200	8.14	
DRO >C10-C28*	15.3	10.0	05/28/2020	ND	190	95.2	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	05/28/2020	ND					
Surrogate: 1-Chlorooctane	84.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	88.2	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/26/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 21 4.2' (H001428-26)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 1500 16.0 05/28/2020 ND 400 100 400 4.08

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/26/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 22 4.2' (H001428-27)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2020	ND	2.01	100	2.00	4.14	
Toluene*	<0.050	0.050	05/28/2020	ND	1.95	97.3	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/28/2020	ND	1.96	98.1	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/28/2020	ND	5.62	93.6	6.00	3.75	
Total BTEX	<0.300	0.300	05/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/28/2020	ND	400	100	400	4.08	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2020	ND	192	96.2	200	8.14	
DRO >C10-C28*	<10.0	10.0	05/28/2020	ND	190	95.2	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	05/28/2020	ND					
Surrogate: 1-Chlorooctane	92.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	95.5	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/26/2020 Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Sample Received By: Project Number: MSU 551H Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 23 4.2' (H001428-28)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2020	ND	2.01	100	2.00	4.14	
Toluene*	<0.050	0.050	05/28/2020	ND	1.95	97.3	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/28/2020	ND	1.96	98.1	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/28/2020	ND	5.62	93.6	6.00	3.75	
Total BTEX	<0.300	0.300	05/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/28/2020	ND	400	100	400	4.08	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2020	ND	192	96.2	200	8.14	
DRO >C10-C28*	<10.0	10.0	05/28/2020	ND	190	95.2	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	05/28/2020	ND					
Surrogate: 1-Chlorooctane	88.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	89.7	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/26/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MS

Project Location: NOT GIVEN

Sample ID: B - 24 E 0.1' (H001428-29)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2020	ND	2.01	100	2.00	4.14	
Toluene*	<0.050	0.050	05/28/2020	ND	1.95	97.3	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/28/2020	ND	1.96	98.1	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/28/2020	ND	5.62	93.6	6.00	3.75	
Total BTEX	<0.300	0.300	05/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7120	16.0	05/28/2020	ND	400	100	400	4.08	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2020	ND	178	88.9	200	3.53	
DRO >C10-C28*	<10.0	10.0	05/28/2020	ND	211	106	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	05/28/2020	ND					
Surrogate: 1-Chlorooctane	83.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	90.2	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/26/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 24 W 0.1' (H001428-30)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 1310 16.0 05/28/2020 ND 400 100 400 4.08

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Analyzed By: MS

Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/26/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

mg/kg

Sample ID: B - 25 1' (H001428-31)

BTEX 8021B

	9/	9	7	7					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2020	ND	2.01	100	2.00	4.14	
Toluene*	<0.050	0.050	05/28/2020	ND	1.95	97.3	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/28/2020	ND	1.96	98.1	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/28/2020	ND	5.62	93.6	6.00	3.75	
Total BTEX	<0.300	0.300	05/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	05/28/2020	ND	400	100	400	4.08	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2020	ND	188	93.9	200	6.40	
DRO >C10-C28*	<10.0	10.0	05/27/2020	ND	188	93.8	200	6.08	
EXT DRO >C28-C36	<10.0	10.0	05/27/2020	ND					
Surrogate: 1-Chlorooctane	90.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.0	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/26/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Sample Received By: Project Number: MSU 551H Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 26 2.5' (H001428-32)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/28/2020	ND	400	100	400	4.08	

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/26/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 27 3' (H001428-33)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2020	ND	1.96	98.1	2.00	3.14	
Toluene*	<0.050	0.050	05/28/2020	ND	1.92	96.0	2.00	2.80	
Ethylbenzene*	< 0.050	0.050	05/28/2020	ND	1.93	96.5	2.00	3.44	
Total Xylenes*	<0.150	0.150	05/28/2020	ND	5.52	92.0	6.00	3.72	
Total BTEX	<0.300	0.300	05/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/28/2020	ND	400	100	400	4.08	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2020	ND	178	88.9	200	3.53	
DRO >C10-C28*	<10.0	10.0	05/28/2020	ND	211	106	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	05/28/2020	ND					
Surrogate: 1-Chlorooctane	95.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	101	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/26/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Sample Received By: Project Number: MSU 551H Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 28 4.2' (H001428-34)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	05/28/2020	ND	400	100	400	4.08	

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/26/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MC

Project Location: NOT GIVEN

Sample ID: B - 29 4.2' (H001428-35)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2020	ND	1.96	98.1	2.00	3.14	
Toluene*	<0.050	0.050	05/28/2020	ND	1.92	96.0	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/28/2020	ND	1.93	96.5	2.00	3.44	
Total Xylenes*	<0.150	0.150	05/28/2020	ND	5.52	92.0	6.00	3.72	
Total BTEX	<0.300	0.300	05/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/28/2020	ND	400	100	400	4.08	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2020	ND	178	88.9	200	3.53	
DRO >C10-C28*	81.0	10.0	05/28/2020	ND	211	106	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	05/28/2020	ND					
Surrogate: 1-Chlorooctane	90.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	101	% 42.2-15	6						

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Kelly Jacobson

Sample Received By:

Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

 Received:
 05/27/2020
 Sampling Date:
 05/26/2020

 Reported:
 05/29/2020
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact

Project Location: NOT GIVEN

MSU 551H

Sample ID: B - 30 4.2' (H001428-36)

Project Number:

Τι	True	e Value QC 2.00 2.00	RPD 3.14 2.80	Qualifier
		2.00	2.80	
		2.00	3.44	
		6.00	3.72	
Tı	True	e Value QC	RPD	Qualifier
		400	4.08	
Tı	True	e Value QC	RPD	Qualifier
		200	3.53	
		200	4.33	
_	_			

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/26/2020 Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 31 4.2' (H001428-37)

BTEX 8021B	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2020	ND	1.96	98.1	2.00	3.14	
Toluene*	<0.050	0.050	05/28/2020	ND	1.92	96.0	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/28/2020	ND	1.93	96.5	2.00	3.44	
Total Xylenes*	<0.150	0.150	05/28/2020	ND	5.52	92.0	6.00	3.72	
Total BTEX	<0.300	0.300	05/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/28/2020	ND	400	100	400	4.08	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2020	ND	178	88.9	200	3.53	
DRO >C10-C28*	42.4	10.0	05/28/2020	ND	211	106	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	05/28/2020	ND					
Surrogate: 1-Chlorooctane	96.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	103 9	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/26/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 32 2.5' (H001428-38)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	05/28/2020	ND	384	96.0	400	4.08	OM-07

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/26/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 33 3' (H001428-39)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2020	ND	1.96	98.1	2.00	3.14	
Toluene*	<0.050	0.050	05/28/2020	ND	1.92	96.0	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/28/2020	ND	1.93	96.5	2.00	3.44	
Total Xylenes*	<0.150	0.150	05/28/2020	ND	5.52	92.0	6.00	3.72	
Total BTEX	<0.300	0.300	05/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/28/2020	ND	384	96.0	400	4.08	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2020	ND	178	88.9	200	3.53	
DRO >C10-C28*	95.3	10.0	05/28/2020	ND	211	106	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	05/28/2020	ND					
Surrogate: 1-Chlorooctane	88.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	97.9	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/26/2020 Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact

Sample Received By: Project Number: MSU 551H Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 34 1.5' (H001428-40)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2020	ND	1.96	98.1	2.00	3.14	
Toluene*	<0.050	0.050	05/28/2020	ND	1.92	96.0	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/28/2020	ND	1.93	96.5	2.00	3.44	
Total Xylenes*	<0.150	0.150	05/28/2020	ND	5.52	92.0	6.00	3.72	
Total BTEX	<0.300	0.300	05/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	05/28/2020	ND	384	96.0	400	4.08	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2020	ND	178	88.9	200	3.53	
DRO >C10-C28*	43.4	10.0	05/28/2020	ND	211	106	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	05/28/2020	ND					
Surrogate: 1-Chlorooctane	96.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	105 9	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/26/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 35 2' (H001428-41)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2020	ND	1.96	98.1	2.00	3.14	
Toluene*	<0.050	0.050	05/28/2020	ND	1.92	96.0	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/28/2020	ND	1.93	96.5	2.00	3.44	
Total Xylenes*	<0.150	0.150	05/28/2020	ND	5.52	92.0	6.00	3.72	
Total BTEX	<0.300	0.300	05/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 5	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	05/28/2020	ND	384	96.0	400	4.08	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2020	ND	178	88.9	200	3.53	
DRO >C10-C28*	102	10.0	05/28/2020	ND	211	106	200	4.33	
EXT DRO >C28-C36	16.7	10.0	05/28/2020	ND					
Surrogate: 1-Chlorooctane	90.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	103 9	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/26/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 36 2' (H001428-42)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	05/28/2020	ND	384	96.0	400	4.08	

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

 Received:
 05/27/2020
 Sampling Date:
 05/26/2020

 Reported:
 05/29/2020
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact

Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MC

Project Location: NOT GIVEN

ma/ka

Sample ID: B - 37 2' (H001428-43)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2020	ND	1.96	98.1	2.00	3.14	
Toluene*	<0.050	0.050	05/28/2020	ND	1.92	96.0	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/28/2020	ND	1.93	96.5	2.00	3.44	
Total Xylenes*	<0.150	0.150	05/28/2020	ND	5.52	92.0	6.00	3.72	
Total BTEX	<0.300	0.300	05/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	05/28/2020	ND	384	96.0	400	4.08	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2020	ND	178	88.9	200	3.53	
DRO >C10-C28*	70.4	10.0	05/28/2020	ND	211	106	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	05/28/2020	ND					
Surrogate: 1-Chlorooctane	94.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	106	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/26/2020

Reported: 05/29/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 38 2' (H001428-44)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2020	ND	1.96	98.1	2.00	3.14	
Toluene*	<0.050	0.050	05/28/2020	ND	1.92	96.0	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/28/2020	ND	1.93	96.5	2.00	3.44	
Total Xylenes*	<0.150	0.150	05/28/2020	ND	5.52	92.0	6.00	3.72	
Total BTEX	<0.300	0.300	05/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/28/2020	ND	384	96.0	400	4.08	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2020	ND	178	88.9	200	3.53	
DRO >C10-C28*	33.1	10.0	05/28/2020	ND	211	106	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	05/28/2020	ND					
Surrogate: 1-Chlorooctane	79.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	87.8	% 42.2-15	6						

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Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

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Company Name:	R.T. Hicks Consultants		BILL IO			
Project Manager:	Andrew Parker	P.O.	# MSU 551 /	7		
Address: On-File	File	Col	Company: R.T. Hicks			
	State:	Zip: Attn:	n: Send to			
Phone #:	Fax#:		Address: andrew@rthicks	icks		
Project #:	Project Owner:	er: City:	y: consult.com			
ame:	Advance Energy		State: Zip:	D.O.	RU	
	nsn/	Ph	Phone #:	B/I	_	
Sampler Name:	Jacob Saenz	Ta.	Fax#:		_	
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING			
Lab I.D.	Sample I.D.	PRAB OR (C)OMP CONTAINERS ROUNDWATER ASTEWATER DIL L UDGE THER:	CID/BASE: E / COOL I'HER :	CHLORIDE	FPH (GRO+ BENZENE,	
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PLEASE NOTE: Liability and analyses. All claims including	PLEASE NOTE: Labily and Damages. Caldrina's lability and clients exclusive remedy for any daim arising whether based in contract or tort, shall be limited to the amount paid by the completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deepned waived unless made in writing and received by Caddinal within 30 days after completion of the applicable analysis.	for any claim arising whether based in contract or to the deemed waived unless made in writing and reculding without limitation, business interruptions, loss	act or fort, shall be limited to the amount paid by the client for the and received by Cardinal within 30 days after completion of the ar s, loss of use, or loss of profits incurred by client, its subsidiaries.	y the client for the ompletion of the applicable nt, its subsidiaries,		
affiliates or successors arisin	filiates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such	by Cardinal, regardless of whether such daim is ba	faim is based upon any of the above stated reasons or otherwise Phone Res	ult:	Yes 🗆	Add'l Phone #:
Relinquished By:	TACOB SAEM 2 Times 75	20 Received by			□ Yes □ No	Add'I Fax #:
Relinquished By:	V: Date:	Received By:				
Delivered By:	(Circle One)	Sample Condition Coal Intage	CHECKED BY:	0		
Sampler - UPS -	- Bus - Other: U. 8C	HIT? ZYes ZYes	_	101		



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

(575) 393-2326 FAX (575) 393-24/6		
Company Name: R.T. Hicks Consultants	1	ANALISIS
Project Manager: Andrew Parker	P.O. #: MSU 551 H	
Address: On-File	Company: R.T. Hicks	CKS
City: State:	Zip: Attn: Send to	
Phone #: Fax #:	Address: andrew@rthicks	2)rthicks
Project #: Project Owner:	r: city: consult.com	
Project Name: Advance Energy	State: Zip:	RC
9	Phone #:	-
Ja	Fax #:	
1	ESERV.	-
Lab I.D. Sample I.D.	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	CHLORIDE TPH (GRO+D BENZENE, B
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service. In no event shall Cardinal be liable for indefinal or consequential outsides, instead of she there is the state of sacross of otherwise affiliates of successors arising out of or related to the performance of services horeunder by Cardinal, regardless of whether subjection is based upon any of the above stated reasons or otherwise. Phone Resultations are successors arising out of or related to the performance of services horeunder by Cardinal, regardless of whether subjection is based upon any of the above stated reasons or otherwise.	w Cardinal, regardless of whether sucy claim is based upon any of the above stated reasons or otherwise.	☐ Yes ☐ No
Relinquished By: SALS SALW 2 Timp; 75	2 Received By:	Fax Result: Yes No Add'I Fax #: REMARKS:
	Received By:	
Time:		
Delivered By: (Circle One) 5,80	Sample Condition CHECKED 51: Cool Intack (Initials) Aves Aves	8,7/
Sampler - Uto - Bus - Other:		



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

		The state of the s			A P	ANIAI VOID BEDILERT	101
Company Name:	R.T. Hicks Consultants		2710				
Project Manager:	Andrew Parker	P.O. #:	# MSM 531 H				
Address: On-File	File	Com	Company: R.T. Hicks				
	State:	Zip: Attn:	Send to				
Phone #:	Fax#:	Address:	ess: andrew@rthicks	cks			
Project #:	Project Owner:	er: City:	consult.com				
ame:	Advance Energy	State:	e: Zip:	RO			
9	~	Phone #:	ne #:	+M			
Sampler Name:		Fax#:	**	0-	-		
FOR LAB USE ONLY		MATRIX P	PRESERV. SAMPLING	DR			
		IERS VATER TER					
Lab I.D.	Sample I.D.	(G)RAB OR # CONTAINE GROUNDW. WASTEWAT SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER :	CHLO	BENZI		
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kg kg	-246001		1	1.48mm	+		
CS.	3 3 - 24 W o . I FT VV V V V I I I I I I I I I V V V V V V	for any claim arising whether based in contract or tort.	shall be limited to the amount paid by	by the client for the			
analyses. All claims including service. In no event shall Car	TLEASE W/ E. Dawing and Demogration of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for incidental or consequental damages, including without limitation, business interruptions, Jose of use, or loss of profits incurred by client. Its associations are subsidiaries, service, in no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, Jose of use, or loss of profits incurred by client. Its associations are subsidiaries.	Il be deemed waived unless made in writing and receiving without limitation, business interruptions, idss of t	I received by Cardinal within 30 days after completion of the aidless of use, or loss of profits incurred by client, its subsidiaries.	mpletion of the applicable t its subsidiaries.			
Relinquished By:	Relinquished By: SALOB SALOW? Timping Timping		Phone Res Fax Result: REMARKS	100	Yes □ No A	Add'I Phone #: Add'I Fax #:	
Relinquished By:	M	Received By: /					
Delivered By: Sampler - UPS -	Delivered By: (Circle One) 5.8°C	Sample Condition Cool Intact C	CHECKED BY: (Initials)	Z		ų.	
			1.1				



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: R.T. Hicks Consultants		B/LL 70			ANALYSIS REQUEST
Project Manager: Andrew Parker		PO. # MSUSSI	H		
File		Company: R.T. Hicks	01		
	Zip:	Attn: Send to			
Phone #: Fax #:		Address: andrew@rthicks	hicks		
Project #: Project Owner:		city: consult.com	n)	
Project Name: Advance Energy		State: Zip:		RO	
9 1		Phone #:		_	
Jacob Saenz		Fax #:			
FOR LABUSE ONLY	R R	PRESERV. SAMPLING		O+DR E, BT	
Lab I.D. Sample I.D.	(G)RAB OR (C)C # CONTAINERS GROUNDWATE WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	CHLORII	TPH (GRO	
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34 13-78 4.2 157			200		
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2-33 3 27			/	大 大	
C10 B-34 1,5 FT	0 U	4	J. 305. C	×	
PLEASE NOTE: Liability and Damages, Cardinar's liability and dient's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal which 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal which 30 days after completion of the applicable analyses. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of years of the applicable accounts of the applicable analyses.	edy for any claim arising whether based in contract shall be deemed waived unless made in writing an including without limitation, business interruptions,	t or tort, shall be limited to the amount paid d received by Cardinal within 30 days afte loss of use, or loss of profits incurred by o	d by the client for the recompletion of the application, its subsidiaries,	la	
Relinquished By: SHCD SHCD Timeg 75	Received By:	Phone Res Fax Result: REMARKS:	Phone Result: Fax Result: REMARKS:	☐ Yes ☐ No	Add'l Phone #: Add'l Fax #:
Relinquished By: Date: Time:	Received By:				
Delivered By (Circle One) 5.82		tion CHECKED BY: (Initials)	5		
Sampler - UPS - Bus - Other:	HI3 KYESK YES	o is	25		



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: R.T. Hicks Consultants		B/LL 70		ANA	ANALYSIS REQUEST
Project Manager: Andrew Parker		P.O. #: MSU 551	T		- 1
Address: On-File		Company: R.T. Hicks			
City: State:	Zip:	Attn: Send to			
Phone #: Fax #:		Address: andrew@rthicks	rthicks		
Project #: Project Owner:	er:	city: consult.com			
Project Name: MSO SSI H		State: Zip:		(O)	
Project Location: Advance Energy		#		MIR	
Jacob Saenz		Fax #:		_	
FOR LAB USE ONLY		PRESERV. SAMPLING	E		
Lab I.D. Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	CHLORIDE	TPH (GRO+	
1/1 B-35 2 PT	×	- X	15:55 ×	X	
3-37 2		-	16:53	4	
44 13-38 2 17	4	2	17.00	× × >	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsever schall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental demanges, including without limitation, business interruptions, loss of uso, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal regardless of whether such claim a based upon any of the above stated researce or otherwise.	r any claim arising whether based in contract e deemed walved unless made in writing and ng without limitation, business interruptions, Cardinal, regardless of whether such claim.	t or tort, shall be limited to the amount paid received by Cardinal within 30 days after loss of use, or loss of profits incurred by the based upon any of the above stated re-	aid by the client for the fler completion of the applicable y client, its subsidiaries, reasons or otherwise		
Relinquished By: 5 HCOB S/N-1/2 Times The	Received By:		Lit	☐ Yes ☐ No Add	Add'l Phone #: Add'l Fax #:
Relinquished By: Date: Time:	Received By:				
Delivered By: (Circle One) 5, 97	Sample Condition	ion CHECKED BY:	5		
Sampler - UPS - Bus - Other:	上川之 Ares Ares	7	5		



June 01, 2020

ANDREW PARKER
R T HICKS CONSULTANTS
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE, NM 87104

RE: ADVANCE ENERGY

Enclosed are the results of analyses for samples received by the laboratory on 05/27/20 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/27/2020

Reported: 06/01/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: B - 39 4.2' (H001442-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2020	ND	1.96	98.1	2.00	3.14	
Toluene*	<0.050	0.050	05/28/2020	ND	1.92	96.0	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/28/2020	ND	1.93	96.5	2.00	3.44	
Total Xylenes*	<0.150	0.150	05/28/2020	ND	5.52	92.0	6.00	3.72	
Total BTEX	<0.300	0.300	05/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	05/29/2020	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2020	ND	189	94.5	200	6.42	
DRO >C10-C28*	<10.0	10.0	05/29/2020	ND	180	90.2	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	05/29/2020	ND					
Surrogate: 1-Chlorooctane	91.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	104 9	% 42.2-15	6						

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/27/2020

Reported: 06/01/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: B - 40 3' (H001442-02)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 272 05/29/2020 ND 416 400 16.0 104 3.77

Sample ID: B - 41 3' (H001442-03)

Chloride, SM4500Cl-B Analyzed By: AC Reporting Limit Analyzed BS True Value QC RPD Analyte Result Method Blank Qualifier % Recovery Chloride 80.0 16.0 05/29/2020 416 400 3.77 ND 104

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

 Received:
 05/27/2020
 Sampling Date:
 05/27/2020

 Reported:
 06/01/2020
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: B - 42 2.5' (H001442-04)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2020	ND	1.96	98.1	2.00	3.14	
Toluene*	<0.050	0.050	05/28/2020	ND	1.92	96.0	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/28/2020	ND	1.93	96.5	2.00	3.44	
Total Xylenes*	<0.150	0.150	05/28/2020	ND	5.52	92.0	6.00	3.72	
Total BTEX	<0.300	0.300	05/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	05/29/2020	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2020	ND	189	94.5	200	6.42	
DRO >C10-C28*	<10.0	10.0	05/29/2020	ND	180	90.2	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	05/29/2020	ND					
Surrogate: 1-Chlorooctane	93.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	103	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/27/2020

Reported: 06/01/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Project Number: MSU 551H Sample Received By: Tamara Oldaker

Project Location: **NOT GIVEN**

Sample ID: B - 43 2.5' (H001442-05)

Chloride, SM4500Cl-B

Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

Chloride 784 05/29/2020 ND 416 400 16.0 104 3.77

Sample ID: B - 44 3' (H001442-06)

Chloride, SM4500Cl-B Analyzed By: AC mg/kg Reporting Limit Analyzed BS True Value QC RPD Analyte Result Method Blank Qualifier % Recovery Chloride 240 16.0 05/29/2020 416 400 3.77 ND 104

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Celeg D. Keene Celey D. Keene, Lab Director/Quality Manager

Page 5 of 14



Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

 Received:
 05/27/2020
 Sampling Date:
 05/27/2020

 Reported:
 06/01/2020
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: B - 45 4.2' (H001442-07)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2020	ND	1.96	98.1	2.00	3.14	
Toluene*	<0.050	0.050	05/28/2020	ND	1.92	96.0	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/28/2020	ND	1.93	96.5	2.00	3.44	
Total Xylenes*	<0.150	0.150	05/28/2020	ND	5.52	92.0	6.00	3.72	
Total BTEX	<0.300	0.300	05/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	05/29/2020	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2020	ND	189	94.5	200	6.42	
DRO >C10-C28*	<10.0	10.0	05/29/2020	ND	180	90.2	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	05/29/2020	ND					
Surrogate: 1-Chlorooctane	88.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	94.0	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/27/2020

Reported: 06/01/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Sample Received By: Project Number: MSU 551H Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: B - 46 4.2' (H001442-08)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2020	ND	1.96	98.1	2.00	3.14	
Toluene*	<0.050	0.050	05/28/2020	ND	1.92	96.0	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/28/2020	ND	1.93	96.5	2.00	3.44	
Total Xylenes*	<0.150	0.150	05/28/2020	ND	5.52	92.0	6.00	3.72	
Total BTEX	<0.300	0.300	05/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	05/29/2020	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2020	ND	189	94.5	200	6.42	
DRO >C10-C28*	<10.0	10.0	05/29/2020	ND	180	90.2	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	05/29/2020	ND					
Surrogate: 1-Chlorooctane	87.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	94.6	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/27/2020

Reported: 06/01/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: B - 47 4.2' (H001442-09)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 240 16.0 05/29/2020 ND 416 104 400 3.77

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/27/2020

Reported: 06/01/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Sample Received By: Project Number: MSU 551H Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: W - 36 0-2.5' (H001442-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	05/28/2020	ND	1.96	98.1	2.00	3.14	
Toluene*	<0.050	0.050	05/28/2020	ND	1.92	96.0	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/28/2020	ND	1.93	96.5	2.00	3.44	
Total Xylenes*	<0.150	0.150	05/28/2020	ND	5.52	92.0	6.00	3.72	
Total BTEX	<0.300	0.300	05/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	05/29/2020	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2020	ND	189	94.5	200	6.42	
DRO >C10-C28*	<10.0	10.0	05/29/2020	ND	180	90.2	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	05/29/2020	ND					
Surrogate: 1-Chlorooctane	94.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	102 9	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/27/2020 Sampling Date: 05/27/2020

Reported: 06/01/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: W - 36 3' (H001442-11)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	208	16.0	05/29/2020	ND	416	104	400	3.77	
Sample ID: W - 37 2' (H	1001442-12)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	403	16.0	05/29/2020	ND	416	104	400	3.77	
Sample ID: W - 38 0-2'	(H001442-13))							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	05/29/2020	ND	416	104	400	3.77	
Sample ID: W - 39 4' (F	1001442-14)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	05/29/2020	ND	416	104	400	3.77	

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Celey D. Keine



Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

 Received:
 05/27/2020
 Sampling Date:
 05/27/2020

 Reported:
 06/01/2020
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: W - 39 0-3' (H001442-15)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2020	ND	1.96	98.1	2.00	3.14	
Toluene*	<0.050	0.050	05/28/2020	ND	1.92	96.0	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/28/2020	ND	1.93	96.5	2.00	3.44	
Total Xylenes*	<0.150	0.150	05/28/2020	ND	5.52	92.0	6.00	3.72	
Total BTEX	<0.300	0.300	05/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	05/29/2020	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2020	ND	189	94.5	200	6.42	
DRO >C10-C28*	<10.0	10.0	05/29/2020	ND	180	90.2	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	05/29/2020	ND					
Surrogate: 1-Chlorooctane	98.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	105	% 42.2-15	6						

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

ANALYSIS REQUES! Foreign Manager: Andrew Parker State: Zip: State: Zip: Announce: Send to Company: R.T. Hicks Announce: Manager: Andrew Parker Topics & Manager:		(3/3) 393-2320 FAA (3/3) 383-24	2/2/ 383-24/	°				l		ı	l				l	1														1
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Coircle One) Date: Sample Condition Cool Intact Coo	service. In no event shall C	cardinal be liable for incidental or consequence in out of or related to the performance of	uental damages, includir of services hereunder by	ng withou	at lim	itation, busine pardless of wh	ess inte	ruption	n is bas	ind upo	or loss on apy	of the	fits incurred by of above stated rea	ient, its subsidiar sons or otherwis	e ries,			1				1						1		1
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Page 14 of 14



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:	P T Hicks Consultants		1	١	1	1	1	4	1	1	0	RIII I	75		1	1	١	1		ANAI VOIC			- 1	PEOI IEST		2						
Project Manager:	Andrew Parker		П					=	P.O.	非	3	MSM		H				\dashv		1	-li	19		-1	1		_	1		1		
Address: On-File	Tile					ı			On	par	Company: R.T.	R	. Hicks	o.							_											
City:	State:	Zip:	0						Attn:			Sen	Send to																			
Phone #:	Fax #:								Address:	ress		and	andrew@rthicks	hicks				-														
Project #:	Project Owner:	Owner:							City:		_	con	consult.com	p				_			_			_			_					
Project Name: /								-	State:	10		Zip:	D.			(O)		-						_								
Project Location:	S								Phone #:	ne #	75					MI		_			_			_		-	_					
Sampler Name:	Jacob Saenz							_	Fax #:	*						0+	EX	111			_										-	
FOR LAB USE ONLY		MD	JIVII .	R		MATRIX	RX		77	R	PRESERV.	-	SAMPLING	ดิ	Œ)+DR	RT	2, 11 1														
Lab I.D.	Sample I.D.	(G)RAB OR (C)0	# CONTAINERS	GROUNDWATE	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE: ICE / COOL	OTHER:	OTTLEN.	DATE	TIME	CHLORII	TPH (GRO	BENZENI	DETALISTAL											45			
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LEASE NOTE: Liability and i malyses. All claims including i ervice. In no event shall Caro iffliates or successors arising	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any dalm arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whotacover shall be deemed walved unless made in writing and received by Cardinal within 3d days after completion of the applicable asserver. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by Cardinal, its subsidiaries, stifflates or subcessors arising out of or related to the performance of services hereundor by Cardinal, regardless of whether such claim is based upon any faithe above stated reasons or otherwise.	remedy for any o vor shall be deer es, including with	dalm an hod wa hout lim	sing who we would would work with the work work work work work work work work	hether ileas rr busin	based ade in	in cor	stract of g and ons, to laim is	r tort, ecolve ss of c	shall b	e limite Cardina loss of	od to the all withing the all	ne amount paid n 30 days after s incurred by cl	is axclusive remedy for any claim ansing whether based in contract or fort, shall be limited to the amount paid by the client for It is windscover shall be decended walved unless made in writing and received by Cardinal within 3d days after completion of the ental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries entre days the contract of the co	the e applic tes,	abio											- 1			ı	1	
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June 01, 2020

ANDREW PARKER
R T HICKS CONSULTANTS
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE, NM 87104

RE: ADVANCE ENERGY

Enclosed are the results of analyses for samples received by the laboratory on 05/28/20 16:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Analyzed By MC

Received: 05/28/2020
Reported: 06/01/2020
Project Name: ADVANCE ENERGY

Project Number: MSU 551H
Project Location: NOT GIVEN

Sampling Date: 05/28/2020

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Kelly Jacobson

Sample ID: W - 24 1-2' (H001454-01)

DTEV 0021D

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2020	ND	2.00	99.8	2.00	1.81	
Toluene*	<0.050	0.050	05/29/2020	ND	1.95	97.5	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2020	ND	1.94	97.1	2.00	2.57	
Total Xylenes*	<0.150	0.150	05/29/2020	ND	5.56	92.6	6.00	2.48	
Total BTEX	<0.300	0.300	05/29/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/01/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2020	ND	189	94.5	200	6.42	
DRO >C10-C28*	<10.0	10.0	05/29/2020	ND	180	90.2	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	05/29/2020	ND					
Surrogate: 1-Chlorooctane	93.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	100	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received: 05/28/2020 Sampling Date: 05/28/2020

Reported: 06/01/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: W - 24 0-1' (H001454-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2020	ND	2.00	99.8	2.00	1.81	
Toluene*	<0.050	0.050	05/29/2020	ND	1.95	97.5	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2020	ND	1.94	97.1	2.00	2.57	
Total Xylenes*	<0.150	0.150	05/29/2020	ND	5.56	92.6	6.00	2.48	
Total BTEX	<0.300	0.300	05/29/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	06/01/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2020	ND	189	94.5	200	6.42	
DRO >C10-C28*	<10.0	10.0	05/29/2020	ND	180	90.2	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	05/29/2020	ND					
Surrogate: 1-Chlorooctane	81.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	81.6	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/28/2020 Sampling Date: 05/28/2020

Reported: 06/01/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: W - 40 0-1' (H001454-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2020	ND	2.00	99.8	2.00	1.81	
Toluene*	<0.050	0.050	05/29/2020	ND	1.95	97.5	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2020	ND	1.94	97.1	2.00	2.57	
Total Xylenes*	<0.150	0.150	05/29/2020	ND	5.56	92.6	6.00	2.48	
Total BTEX	<0.300	0.300	05/29/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	06/01/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2020	ND	189	94.5	200	6.42	
DRO >C10-C28*	51.2	10.0	05/29/2020	ND	180	90.2	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	05/29/2020	ND					
Surrogate: 1-Chlorooctane	79.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	86.3	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received: 05/28/2020 Sampling Date: 05/28/2020

Reported: 06/01/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Sample Received By: Project Number: MSU 551H Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 48 2' (H001454-04)

BTEX 8021B	mg	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2020	ND	2.00	99.8	2.00	1.81	
Toluene*	<0.050	0.050	05/29/2020	ND	1.95	97.5	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2020	ND	1.94	97.1	2.00	2.57	
Total Xylenes*	<0.150	0.150	05/29/2020	ND	5.56	92.6	6.00	2.48	
Total BTEX	<0.300	0.300	05/29/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	06/01/2020	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2020	ND	189	94.5	200	6.42	
DRO >C10-C28*	<10.0	10.0	05/29/2020	ND	180	90.2	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	05/29/2020	ND					
Surrogate: 1-Chlorooctane	82.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	85.6	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/28/2020 Sampling Date: 05/28/2020

Reported: 06/01/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Sample Received By: Project Number: MSU 551H Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 49 2' (H001454-05)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2020	ND	2.00	99.8	2.00	1.81	
Toluene*	<0.050	0.050	05/29/2020	ND	1.95	97.5	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2020	ND	1.94	97.1	2.00	2.57	
Total Xylenes*	<0.150	0.150	05/29/2020	ND	5.56	92.6	6.00	2.48	
Total BTEX	<0.300	0.300	05/29/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/01/2020	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2020	ND	189	94.5	200	6.42	
DRO >C10-C28*	<10.0	10.0	05/29/2020	ND	180	90.2	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	05/29/2020	ND					
Surrogate: 1-Chlorooctane	78.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	83.2	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/28/2020 Sampling Date: 05/28/2020

Reported: 06/01/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 50 4.1' (H001454-06)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2020	ND	2.00	99.8	2.00	1.81	
Toluene*	<0.050	0.050	05/29/2020	ND	1.95	97.5	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2020	ND	1.94	97.1	2.00	2.57	
Total Xylenes*	<0.150	0.150	05/29/2020	ND	5.56	92.6	6.00	2.48	
Total BTEX	<0.300	0.300	05/29/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	06/01/2020	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2020	ND	189	94.5	200	6.42	
DRO >C10-C28*	<10.0	10.0	05/29/2020	ND	180	90.2	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	05/29/2020	ND					
Surrogate: 1-Chlorooctane	91.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	96.7	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 05/28/2020 Sampling Date: 05/28/2020

Reported: 06/01/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 51 3' (H001454-07)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2020	ND	2.00	99.8	2.00	1.81	
Toluene*	<0.050	0.050	05/29/2020	ND	1.95	97.5	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2020	ND	1.94	97.1	2.00	2.57	
Total Xylenes*	<0.150	0.150	05/29/2020	ND	5.56	92.6	6.00	2.48	
Total BTEX	<0.300	0.300	05/29/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/01/2020	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2020	ND	189	94.5	200	6.42	
DRO >C10-C28*	<10.0	10.0	05/29/2020	ND	180	90.2	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	05/29/2020	ND					
Surrogate: 1-Chlorooctane	77.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	84.1	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 05/28/2020 Sampling Date: 05/28/2020

Reported: 06/01/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 52 4.2' (H001454-08)

Chloride, SM4500Cl-B Analyzed By: GM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 64.0 16.0 06/01/2020 ND 416 104 400 3.77

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

 Received:
 05/28/2020
 Sampling Date:
 05/28/2020

 Reported:
 06/01/2020
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 53 4.2' (H001454-09)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2020	ND	2.00	99.8	2.00	1.81	
Toluene*	<0.050	0.050	05/29/2020	ND	1.95	97.5	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2020	ND	1.94	97.1	2.00	2.57	
Total Xylenes*	<0.150	0.150	05/29/2020	ND	5.56	92.6	6.00	2.48	
Total BTEX	<0.300	0.300	05/29/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	06/01/2020	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2020	ND	189	94.5	200	6.42	
DRO >C10-C28*	<10.0	10.0	05/29/2020	ND	180	90.2	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	05/29/2020	ND					
Surrogate: 1-Chlorooctane	76.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	81.8	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/28/2020 Sampling Date: 05/28/2020

Reported: 06/01/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 54 4.2' (H001454-10)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2020	ND	2.00	99.8	2.00	1.81	
Toluene*	<0.050	0.050	05/29/2020	ND	1.95	97.5	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2020	ND	1.94	97.1	2.00	2.57	
Total Xylenes*	<0.150	0.150	05/29/2020	ND	5.56	92.6	6.00	2.48	
Total BTEX	<0.300	0.300	05/29/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	06/01/2020	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2020	ND	189	94.5	200	6.42	
DRO >C10-C28*	<10.0	10.0	05/29/2020	ND	180	90.2	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	05/29/2020	ND					
Surrogate: 1-Chlorooctane	83.1	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	91.2	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 05/28/2020 Sampling Date: 05/28/2020

Reported: 06/01/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 54 NW 4.2' (H001454-11)

Chloride, SM4500Cl-B mg/kg Analyzed By: GM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 11900 16.0 06/01/2020 ND 416 104 400 3.77

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/28/2020 Sampling Date: 05/28/2020

Reported: 06/01/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MS

NOT GIVEN

mg/kg

Sample ID: B - 54 S .75 4.2' (H001454-12)

Project Location:

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2020	ND	2.00	99.8	2.00	1.81	
Toluene*	<0.050	0.050	05/29/2020	ND	1.95	97.5	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2020	ND	1.94	97.1	2.00	2.57	
Total Xylenes*	<0.150	0.150	05/29/2020	ND	5.56	92.6	6.00	2.48	
Total BTEX	<0.300	0.300	05/29/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/01/2020	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2020	ND	189	94.5	200	6.42	
DRO >C10-C28*	<10.0	10.0	05/29/2020	ND	180	90.2	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	05/29/2020	ND					

Surrogate: 1-Chlorooctane 78.5 % 44.3-144
Surrogate: 1-Chlorooctadecane 83.7 % 42.2-156

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Celey D. Keine



Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 05/28/2020 Sampling Date: 05/28/2020

Reported: 06/01/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 55 4.2' (H001454-13)

Chloride, SM4500Cl-B Analyzed By: GM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 592 16.0 06/01/2020 ND 416 104 400 3.77

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Celeg D. Freene



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/28/2020 Sampling Date: 05/28/2020

Reported: 06/01/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 56 1' (H001454-14)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2020	ND	2.00	99.8	2.00	1.81	
Toluene*	<0.050	0.050	05/29/2020	ND	1.95	97.5	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2020	ND	1.94	97.1	2.00	2.57	
Total Xylenes*	<0.150	0.150	05/29/2020	ND	5.56	92.6	6.00	2.48	
Total BTEX	<0.300	0.300	05/29/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	06/01/2020	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2020	ND	184	92.1	200	8.33	
DRO >C10-C28*	<10.0	10.0	05/29/2020	ND	180	90.2	200	8.66	
EXT DRO >C28-C36	<10.0	10.0	05/29/2020	ND					
Surrogate: 1-Chlorooctane	94.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	96.7	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/28/2020 Sampling Date: 05/28/2020

Reported: 06/01/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 57 1' (H001454-15)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	06/01/2020	ND	416	104	400	3.77	

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/28/2020 Sampling Date: 05/28/2020

Reported: 06/01/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Applyzod By: MC

Project Location: NOT GIVEN

Sample ID: BACK FILL 1 E (H001454-16)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2020	ND	2.00	99.8	2.00	1.81	
Toluene*	<0.050	0.050	05/29/2020	ND	1.95	97.5	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2020	ND	1.94	97.1	2.00	2.57	
Total Xylenes*	<0.150	0.150	05/29/2020	ND	5.56	92.6	6.00	2.48	
Total BTEX	<0.300	0.300	05/29/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/01/2020	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2020	ND	184	92.1	200	8.33	
DRO >C10-C28*	<10.0	10.0	05/29/2020	ND	180	90.2	200	8.66	
EXT DRO >C28-C36	<10.0	10.0	05/29/2020	ND					
Surrogate: 1-Chlorooctane	91.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	96.6	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 05/28/2020 Sampling Date: 05/28/2020

Reported: 06/01/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Sample Received By: Project Number: MSU 551H Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: BACK FILL 1 W (H001454-17)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2020	ND	2.00	99.8	2.00	1.81	
Toluene*	<0.050	0.050	05/29/2020	ND	1.95	97.5	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2020	ND	1.94	97.1	2.00	2.57	
Total Xylenes*	<0.150	0.150	05/29/2020	ND	5.56	92.6	6.00	2.48	
Total BTEX	<0.300	0.300	05/29/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/01/2020	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2020	ND	184	92.1	200	8.33	
DRO >C10-C28*	<10.0	10.0	05/29/2020	ND	180	90.2	200	8.66	
EXT DRO >C28-C36	<10.0	10.0	05/29/2020	ND					
Surrogate: 1-Chlorooctane	89.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	92.6	% 42.2-15	6						

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

(0.0) 000 1010	(0.0) 000	DII 1 10		ANALYSIS REQUEST
company Name: R.T. Hicks Consultants	ultants	DILL		
roject Manager: Andrew Parker				
Address: On-File	X	pany:		
city:	State: Zip:	Attn: Send to		
Phone #:	Fax #:	Address: andrew@rthicks	nicks	
Project #:	Project Owner:	city: consult.com		
Project Name: Advance Energy		State: Zip:	RO	
Project Location: MSU SSIH		Phone #:	+M	
Sampler Name: Jacob Sacnz		Fax #:	20-	EX
FOR LAB USE ONLY	S ER	PRESERV. SAMPLING	IDE	NE, BT
Lab I.D. Sample I.D.	(G)RAB OR (C) # CONTAINER GROUNDWAT WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	CHLOR TPH (GR	BENZE
7	1 2	X S/2Y/20	2	· X
2 K-24	0-151 1		6:30-4 X	7
2 - 40	0-1FT		7	1
2 12-48	200		7:30 X	
bh- V 3	217		×	
6-50	4.187		0	
15-8 t	365		9	
×1-150	4.2F7		9:30	-
13-5	4.2 FT		- 5 - X	2 8
PLEASE NOTE: Liability and Damages. Cardinal's liability and	9LEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any dairn arising whether based in contract or tort, shall be limited to the amount paid by the client for the	contract or tort, shall be limited to the amount paid	by the client for the	-
analyses. All claims including those for negligence and any observice. In no event shall Cardinal be liable for incidental or co	analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and cockwop'by Carlifriol within 30 days after competen or the apparatus analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and cockwop'by Carlifrion that including the loss of loss of profits incrured by Claims. Its subsidiaries, services. In no event shall Cardinal be liable for incidental or cansequental damages, including white thin this incident in the fight income any of the above stated reasons or otherwise.	ting and received by Cardinal within 30 days after ptions, loss of dise, or loss of profits incurred by di a claim is haked upon any of the above stated rear	ter completion of the application y client, its subsidiaries, reasons or otherwise.	
efficience or successors ensing out of or related to the partermance Relinquished By:	Date: Received By:	d	Phone Result:	/es □ No Add'l Phone #: /es □ No Add'l Fax #:
SALOS SAEN Z	Time: Received By:	1	REMARKS:	
My Marchines	ime:		>	
Delivered By: (Circle One) 4.8%		ondition CHECKED BY:	5	
Sampler - UPS - Bus - Other:	HIJ No I No			

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:	R.T. Hicks Consultants		BILL TO			ANALYSIS REQUEST
Project Manager:			P.O. #: MSN SSIH			
Address: On-	On-File		Company: R.T. Hicks	S		
City:	State:	Zip:	Attn: Send to			
Phone #:	Fax #:		Address: andrew@rthicks	thicks		
Project #:	Project Owner:	vner:	city: consult.com			
Project Name:	Advance Energy		State: Zip:	80		,
Project Location:			Phone #:	-MI	-	
Sampler Name:	Jacob Saenz		Fax #:	O+		
FOR LAB USE ONLY			PRESERV. SAMPLING	Œ		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OI # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	CHLORID TPH (GRO	BENZENE	
	B- 54 NW 4.2FT	×	×	7:13		
77	54 8.75	FT		11:30	×	
ŽŽ	13-55 4.2FT	FT		11:45		
からい	8 56 6 .75	ET .		4	7	
3,0	19-26 SM			12.42		
14		77		12:30 X	R	
	15-01 1 F			20 10	+	
7	2	44	4	30 U	*	
ALEASE NOTE: Llability an malysos. All claims includin ervice. In no event shall Ce		day for any claim arising whether based in contract or tort, a chall be deemed waived unless made in writing and receive relating without limitation, business interruptions, loss of us to the form of the challenge of the challe	act or tort, shall be limited to the amount par and received by Cardinal within 30 days after s, loss of use, or loss of profits incurred by	aid by the client for the for completten of the applicable y client, its subsidiaries, consider the complete or otherwise.		
Relinquished By:	Relinquished By: Date: S-78-720 Time: 1610			ħ	☐ Yes ☐ No	Add'! Phone #: Add'! Fax #:
Relinquished By:		Received By:		>		
Delivered By	Delivered By: (Circle One) U. 8	Sample Condition Cool Intact Ves Ves	lition CHECKED BY: (Initials)	BY		
Samples - or a	Samples - ors - outer.	No No No No No No No No No No No No No N	2 × ×			



June 05, 2020

ANDREW PARKER
R T HICKS CONSULTANTS
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE, NM 87104

RE: ADVANCE ENERGY

Enclosed are the results of analyses for samples received by the laboratory on 06/02/20 16:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 06/02/2020 Sampling Date: 06/02/2020

Reported: 06/05/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: NOT GIVEN

Sample ID: W - 06 + 2' N 0-4' (H001495-01)

mg/kg

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2020	ND	1.90	95.2	2.00	1.94	
Toluene*	<0.050	0.050	06/03/2020	ND	1.95	97.3	2.00	2.38	
Ethylbenzene*	<0.050	0.050	06/03/2020	ND	1.99	99.6	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/03/2020	ND	5.80	96.7	6.00	2.79	
Total BTEX	<0.300	0.300	06/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	06/03/2020	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2020	ND	178	88.9	200	5.71	
DRO >C10-C28*	<10.0	10.0	06/03/2020	ND	178	89.0	200	4.73	
EXT DRO >C28-C36	<10.0	10.0	06/03/2020	ND					
Surrogate: 1-Chlorooctane	94.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	99.4	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 06/02/2020 Sampling Date: 06/02/2020

Reported: 06/05/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: W - 07 + 2' N 0-4' (H001495-02)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2020	ND	1.90	95.2	2.00	1.94	
Toluene*	<0.050	0.050	06/03/2020	ND	1.95	97.3	2.00	2.38	
Ethylbenzene*	<0.050	0.050	06/03/2020	ND	1.99	99.6	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/03/2020	ND	5.80	96.7	6.00	2.79	
Total BTEX	< 0.300	0.300	06/03/2020	ND					

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/03/2020	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2020	ND	178	88.9	200	5.71	
DRO >C10-C28*	<10.0	10.0	06/03/2020	ND	178	89.0	200	4.73	
EXT DRO >C28-C36	<10.0	10.0	06/03/2020	ND					

Surrogate: 1-Chlorooctane 95.9 % 44.3-144 Surrogate: 1-Chlorooctadecane 103 % 42.2-156

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 06/02/2020 Sampling Date: 06/02/2020

Reported: 06/05/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: W - 08 + 2' N 0-4' (H001495-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2020	ND	1.90	95.2	2.00	1.94	
Toluene*	<0.050	0.050	06/03/2020	ND	1.95	97.3	2.00	2.38	
Ethylbenzene*	<0.050	0.050	06/03/2020	ND	1.99	99.6	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/03/2020	ND	5.80	96.7	6.00	2.79	
Total BTEX	<0.300	0.300	06/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.4 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/03/2020	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2020	ND	178	88.9	200	5.71	
DRO >C10-C28*	<10.0	10.0	06/03/2020	ND	178	89.0	200	4.73	
EXT DRO >C28-C36	<10.0	10.0	06/03/2020	ND					

Surrogate: 1-Chlorooctane 90.5 % 44.3-144
Surrogate: 1-Chlorooctadecane 96.0 % 42.2-156

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Celey D. Keine



Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 06/02/2020 Sampling Date: 06/02/2020

Reported: 06/05/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: NOT GIVEN

Sample ID: W - 10 + 2' N 0-4' (H001495-04)

mg/kg

BTEX 8021B

DILX OUZID	11197	ng .	Andryzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2020	ND	1.90	95.2	2.00	1.94	
Toluene*	<0.050	0.050	06/03/2020	ND	1.95	97.3	2.00	2.38	
Ethylbenzene*	<0.050	0.050	06/03/2020	ND	1.99	99.6	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/03/2020	ND	5.80	96.7	6.00	2.79	
Total BTEX	<0.300	0.300	06/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	06/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2020	ND	178	88.9	200	5.71	
DRO >C10-C28*	<10.0	10.0	06/03/2020	ND	178	89.0	200	4.73	
EXT DRO >C28-C36	<10.0	10.0	06/03/2020	ND					
Surrogate: 1-Chlorooctane	94.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	99.6	% 42.2-15	6						

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Celeg D. Freene



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 06/02/2020 Sampling Date: 06/02/2020

Reported: 06/05/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Sample Received By: Project Number: MSU 551H Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: W - 13 + 2' N 0.1-4' (H001495-05)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2020	ND	1.90	95.2	2.00	1.94	
Toluene*	<0.050	0.050	06/03/2020	ND	1.95	97.3	2.00	2.38	
Ethylbenzene*	<0.050	0.050	06/03/2020	ND	1.99	99.6	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/03/2020	ND	5.80	96.7	6.00	2.79	
Total BTEX	<0.300	0.300	06/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	06/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2020	ND	178	88.9	200	5.71	
DRO >C10-C28*	<10.0	10.0	06/04/2020	ND	178	89.0	200	4.73	
EXT DRO >C28-C36	<10.0	10.0	06/04/2020	ND					
Surrogate: 1-Chlorooctane	87.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.4	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 06/02/2020 Sampling Date: 06/02/2020

Reported: 06/05/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: NOT GIVEN

Sample ID: B - 18 CL 5.5' (H001495-06)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2020	ND	1.90	95.2	2.00	1.94	
Toluene*	<0.050	0.050	06/03/2020	ND	1.95	97.3	2.00	2.38	
Ethylbenzene*	<0.050	0.050	06/03/2020	ND	1.99	99.6	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/03/2020	ND	5.80	96.7	6.00	2.79	
Total BTEX	<0.300	0.300	06/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1 9	% 73.3-129	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2020	ND	178	88.9	200	5.71	
DRO >C10-C28*	<10.0	10.0	06/04/2020	ND	178	89.0	200	4.73	
EXT DRO >C28-C36	<10.0	10.0	06/04/2020	ND					
Surrogate: 1-Chlorooctane	93.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	101 9	42.2-150	5						

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 06/02/2020 Sampling Date: 06/02/2020

Reported: 06/05/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: NOT GIVEN

Sample ID: B - 19 CL 5.5' (H001495-07)

BTEX 8021B

DILX OUZID	iiig/	, kg	Andryzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2020	ND	1.90	95.2	2.00	1.94	
Toluene*	<0.050	0.050	06/03/2020	ND	1.95	97.3	2.00	2.38	
Ethylbenzene*	<0.050	0.050	06/03/2020	ND	1.99	99.6	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/03/2020	ND	5.80	96.7	6.00	2.79	
Total BTEX	<0.300	0.300	06/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2020	ND	178	88.9	200	5.71	
DRO >C10-C28*	<10.0	10.0	06/04/2020	ND	178	89.0	200	4.73	
EXT DRO >C28-C36	<10.0	10.0	06/04/2020	ND					
Surrogate: 1-Chlorooctane	99.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	101	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 06/02/2020 Sampling Date: 06/02/2020

Reported: 06/05/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: NOT GIVEN

Sample ID: B - 21 CL 5.5' (H001495-08)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2020	ND	1.90	95.2	2.00	1.94	
Toluene*	<0.050	0.050	06/03/2020	ND	1.95	97.3	2.00	2.38	
Ethylbenzene*	<0.050	0.050	06/03/2020	ND	1.99	99.6	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/03/2020	ND	5.80	96.7	6.00	2.79	
Total BTEX	<0.300	0.300	06/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5840	16.0	06/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2020	ND	178	88.9	200	5.71	
DRO >C10-C28*	<10.0	10.0	06/04/2020	ND	178	89.0	200	4.73	
EXT DRO >C28-C36	<10.0	10.0	06/04/2020	ND					
Surrogate: 1-Chlorooctane	100 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	106 9	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 06/02/2020 Sampling Date: 06/02/2020

Reported: 06/05/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: NOT GIVEN

Sample ID: B - 22 CL 5.5' (H001495-09)

BTEX 8021B

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2020	ND	1.90	95.2	2.00	1.94	
Toluene*	<0.050	0.050	06/03/2020	ND	1.95	97.3	2.00	2.38	
Ethylbenzene*	<0.050	0.050	06/03/2020	ND	1.99	99.6	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/03/2020	ND	5.80	96.7	6.00	2.79	
Total BTEX	<0.300	0.300	06/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2020	ND	178	88.9	200	5.71	
DRO >C10-C28*	<10.0	10.0	06/04/2020	ND	178	89.0	200	4.73	
EXT DRO >C28-C36	<10.0	10.0	06/04/2020	ND					
Surrogate: 1-Chlorooctane	95.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	99.6	% 42.2-15	6						

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Celey D. Kune



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 06/02/2020 Sampling Date: 06/02/2020

Reported: 06/05/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: NOT GIVEN

mg/kg

Sample ID: B - 43 3' (H001495-10)

BTEX 8021B

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2020	ND	1.90	95.2	2.00	1.94	
Toluene*	<0.050	0.050	06/03/2020	ND	1.95	97.3	2.00	2.38	
Ethylbenzene*	<0.050	0.050	06/03/2020	ND	1.99	99.6	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/03/2020	ND	5.80	96.7	6.00	2.79	
Total BTEX	<0.300	0.300	06/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2020	ND	178	88.9	200	5.71	
DRO >C10-C28*	<10.0	10.0	06/04/2020	ND	178	89.0	200	4.73	
EXT DRO >C28-C36	<10.0	10.0	06/04/2020	ND					
Surrogate: 1-Chlorooctane	83.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	88.5	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 06/02/2020 Sampling Date: 06/02/2020

Reported: 06/05/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: NOT GIVEN

Sample ID: B - 54 NW 5.5' (H001495-11)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2020	ND	1.90	95.2	2.00	1.94	
Toluene*	<0.050	0.050	06/03/2020	ND	1.95	97.3	2.00	2.38	
Ethylbenzene*	<0.050	0.050	06/03/2020	ND	1.99	99.6	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/03/2020	ND	5.80	96.7	6.00	2.79	
Total BTEX	<0.300	0.300	06/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2020	ND	178	88.9	200	5.71	
DRO >C10-C28*	<10.0	10.0	06/04/2020	ND	178	89.0	200	4.73	
EXT DRO >C28-C36	<10.0	10.0	06/04/2020	ND					
Surrogate: 1-Chlorooctane	104	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	110	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 06/02/2020 Sampling Date: 06/02/2020

Reported: 06/05/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: NOT GIVEN

Sample ID: B - 58 4.2' (H001495-12)

RTFY 8021R

BIEX 8021B	mg/	кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2020	ND	1.90	95.2	2.00	1.94	
Toluene*	<0.050	0.050	06/03/2020	ND	1.95	97.3	2.00	2.38	
Ethylbenzene*	<0.050	0.050	06/03/2020	ND	1.99	99.6	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/03/2020	ND	5.80	96.7	6.00	2.79	
Total BTEX	<0.300	0.300	06/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2020	ND	192	95.9	200	5.15	
DRO >C10-C28*	<10.0	10.0	06/04/2020	ND	187	93.7	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	06/04/2020	ND					
Surrogate: 1-Chlorooctane	105 9	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	113 9	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 06/02/2020 Sampling Date: 06/02/2020

Reported: 06/05/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Project Number: Sample Received By: MSU 551H Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: B - 59 4.2' (H001495-13)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2020	ND	1.90	95.2	2.00	1.94	
Toluene*	<0.050	0.050	06/03/2020	ND	1.95	97.3	2.00	2.38	
Ethylbenzene*	<0.050	0.050	06/03/2020	ND	1.99	99.6	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/03/2020	ND	5.80	96.7	6.00	2.79	
Total BTEX	<0.300	0.300	06/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2020	ND	192	95.9	200	5.15	
DRO >C10-C28*	<10.0	10.0	06/04/2020	ND	187	93.7	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	06/04/2020	ND					
Surrogate: 1-Chlorooctane	103 %	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	111 9	6 42.2-15	6						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:	R.T. Hicks Consultants	tants			BILL TO				ANALYSIS	SIS REQUEST	ST	
Project Manager:				P.O. #:	msu 551	干						
Address: On-	On-File			Compa	Company: R.T. Hicks	S						
City:		State:	Zip:	Attn:	Send to		_					
Phone #:		Fax #:		Address:	ss: andrew@rthicks	thicks	_					
Project #:		Project Owner:		City:	consult.com	m)					
Project Name:	Advanced Ex	Energy		State:	Zip:		RO					
Project Location:	MSU 551 H	(Phone #:	#:		MI	_				
Sampler Name:	Jacob Saenz			Fax #:			O+	-				
FOR LAB USE ONLY				MATRIX PRE	PRESERV. SAMPLING	NG	DR					
Lab I.D.	Sample I.D.	.5	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL	OIL SLUDGE OTHER: ACID/BASE:	OTHER:	TIME COURSE	CHLORIDE TPH (GRO+1	BENZENE, I				
^	W176+ 40-W	J G-4PT			00/8/10 X	8mr	×	y				
7	W-07 +29TN	0 0-4PT	(e)			6:15mg		_				
W	000		0			1. N. B		_				
4	と-10 ナガヤイへ	N 0-4PT	0			24.3		_				
5	W-13 + 2PTN	0.1-4PT	6			Jan .						
0	B-18CL	5,507	D			1.836		_				
1	B-19CL	5.500	G)			1053		_				
d	B- 2100	5.5 PT	<i>□</i>			Mary		-				
2	B- 20CL	5.50	€ €			1/13000	1					
10	B - 43	300	CC			1200	<	Ç				
PLEASE NOTE: Liability and analyses. All claims including service. In no event shall Carafillates or successors arising	PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligance and any other cause whatspeever shall be deemed waved unless made in writing and received by Cardinal within 30 days after competition of the applicable service, in no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profile incurred by Client, is subsidiaries, saffiliates or successors arising out of or related to the performance of services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated reasons or otherwise.	ts exclusive remedy for a use whatspever shall be o lental damages, including services hereunder by C:	ny claim arising whether bas seemed waived unless made without limitation, business ardinal, regardless of wheth	sed in contract or tort, shall be in writing and received by interruptions, loss of use, er such claim is based upo	l be limited to the amount pa / Cardinal within 30 days aft, or loss of profits incurred by an any of the above stated re	id by the client for the arm completion of the arctinet, its subsidiaries, asons or otherwise.	plicable					
Relinguished By:	NSHB C	Date: 2-26	Received By:	iona d	llaken	Phone Result: Eax Result: REMARKS:		□ Yes □	No Add'l Phone #: No Add'l Fax #:	one#:		
Relinquished By:	Jell .		Received By:				220	5	CL only	11/4		
11	1	I IIII C.					7	-	(-		_

Sample Condition
Cool Intact
Pes Pes
No No

CHECKED BY:
(Initials)

Released to Imaging: 7/27/2021 1:32:26 PM

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Released to Imaging: 7/27/2021 1:32:26 PM



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

[5]	(5/5) 393-2320 FAA (3/	FAX (3/3) 333-24/0					ANALYSIS REO	RECHEST
Company Name:	R.T. Hicks Consultants	ints		BILL				
Project Manager:	Andrew Parker				I			
Address: On-	On-File			Company: R.T. Hicks	S			
		State: Zip:		Attn: Send to				
Phone #:	TI N			Address: andrew@rthicks	rthicks			
Project #:	Pı	Project Owner:		city: consult.com)		
Project Name: Admine	Enry			State: Zip:		RO		
Project I ocation MS S S I H	T			Phone #:				
Tiological Manage	Jacob Saenz			Fax #:				
Sampler Name:	Jacob Dacing		VIGTOR	DRESERV SAMPLING		-		
Lab I.D.	Sample I.D.	RAB OR (C)OMP.			CHLORIDE	TPH (GRO+D BENZENE, B		
120/25		(G)R	GRO WAS SOIL	OTH ACII ICE OTH	C	-		
11	B-54NW	5.5FT G	×	X 6/2/20	×			
12	23	JAT W			1:450 Q	-		
	2-59	4.257 C	<	<	21. 2	2		
PLEASE NOTE: Liability ar analyses. All claims includir service. In no event shall Co	PLASE NOTE: Liability and Damages. Cardinat's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount pure up the when we have analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by clearly loss of use, or loss	s exclusive remedy for any da se whatsoever shall be deem ental damages, including with	im arising whether based in con ed waived unless made in writing out limitation, business interruption	tract or fort, shall be limited to the amount, g and received by Cardinal within 30 days a ons, loss of use, or loss of profits incurred to the second use, or loss of the above stated the second use.	after completion of the applicable y client, its subsidiaries.	ra Ta		
Relinquished By:	affiliates or successors arising out of or related to the performance of Relinquished By: Shub Shu M	Date: A R	Time:	Holl on	Lt.	☐ Yes ☐	No Add'l Phone #: No Add'l Fax #:	
Relinquished By:	7		Received By:	(0	<u>)</u>	lash CL only	L only
Delivered By			Sample Condition Cool Intact	유	C)		
Sampler - UPS	Sampler - UPS - Bus - Other:	5.1c #1/3		No Y				



June 09, 2020

ANDREW PARKER
R T HICKS CONSULTANTS
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE, NM 87104

RE: ADVANCE ENERGY

Enclosed are the results of analyses for samples received by the laboratory on 06/03/20 16:57.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keine

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

 Received:
 06/03/2020
 Sampling Date:
 06/03/2020

 Reported:
 06/09/2020
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: ** (See Notes)
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: ms

Project Location: NOT GIVEN

mg/kg

Sample ID: B - 09 2.5' (H001510-01)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2020	ND	2.02	101	2.00	2.79	
Toluene*	< 0.050	0.050	06/05/2020	ND	2.18	109	2.00	2.24	
Ethylbenzene*	<0.050	0.050	06/05/2020	ND	2.08	104	2.00	2.19	
Total Xylenes*	<0.150	0.150	06/05/2020	ND	6.06	101	6.00	1.18	
Total BTEX	<0.300	0.300	06/05/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/04/2020	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2020	ND	192	95.9	200	5.15	
DRO >C10-C28*	<10.0	10.0	06/04/2020	ND	187	93.7	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	06/04/2020	ND					
Surrogate: 1-Chlorooctane									
	104	% 44.3-14	4						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 06/03/2020 Sampling Date: 06/03/2020

Reported: 06/09/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: ** (See Notes)
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: ms

Project Location: NOT GIVEN

mg/kg

Sample ID: B - 12 3' (H001510-02)

BTEX 8021B

				<u> </u>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2020	ND	2.02	101	2.00	2.79	
Toluene*	<0.050	0.050	06/05/2020	ND	2.18	109	2.00	2.24	
Ethylbenzene*	<0.050	0.050	06/05/2020	ND	2.08	104	2.00	2.19	
Total Xylenes*	<0.150	0.150	06/05/2020	ND	6.06	101	6.00	1.18	
Total BTEX	<0.300	0.300	06/05/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/04/2020	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2020	ND	192	95.9	200	5.15	
DRO >C10-C28*	<10.0	10.0	06/04/2020	ND	187	93.7	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	06/04/2020	ND					
Surrogate: 1-Chlorooctane	96.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	100 9	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Analyzed By: ms

 Received:
 06/03/2020
 Sampling Date:
 06/03/2020

 Reported:
 06/09/2020
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: ** (See Notes)
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

mg/kg

Sample ID: B - 13 4.2' (H001510-03)

BTEX 8021B

	9/	9	7	7:					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2020	ND	2.02	101	2.00	2.79	
Toluene*	<0.050	0.050	06/05/2020	ND	2.18	109	2.00	2.24	
Ethylbenzene*	<0.050	0.050	06/05/2020	ND	2.08	104	2.00	2.19	
Total Xylenes*	<0.150	0.150	06/05/2020	ND	6.06	101	6.00	1.18	
Total BTEX	<0.300	0.300	06/05/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/04/2020	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2020	ND	192	95.9	200	5.15	
DRO >C10-C28*	<10.0	10.0	06/04/2020	ND	187	93.7	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	06/04/2020	ND					
Surrogate: 1-Chlorooctane	95.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	98.2	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received: 06/03/2020 Sampling Date: 06/03/2020 Reported: 06/09/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: ** (See Notes) Sample Received By: Project Number: MSU 551H Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 25 1.5' (H001510-04)

BTEX 8021B	mg/kg		Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2020	ND	2.02	101	2.00	2.79	
Toluene*	<0.050	0.050	06/05/2020	ND	2.18	109	2.00	2.24	
Ethylbenzene*	<0.050	0.050	06/05/2020	ND	2.08	104	2.00	2.19	
Total Xylenes*	<0.150	0.150	06/05/2020	ND	6.06	101	6.00	1.18	
Total BTEX	<0.300	0.300	06/05/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2640	16.0	06/04/2020	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2020	ND	192	95.9	200	5.15	
DRO >C10-C28*	<10.0	10.0	06/04/2020	ND	187	93.7	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	06/04/2020	ND					
Surrogate: 1-Chlorooctane	98.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	103 9	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

 Received:
 06/03/2020
 Sampling Date:
 06/03/2020

 Reported:
 06/09/2020
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: ** (See Notes)
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: me

Project Location: NOT GIVEN

Sample ID: B - 32 3' (H001510-05)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2020	ND	2.02	101	2.00	2.79	
Toluene*	<0.050	0.050	06/05/2020	ND	2.18	109	2.00	2.24	
Ethylbenzene*	<0.050	0.050	06/05/2020	ND	2.08	104	2.00	2.19	
Total Xylenes*	<0.150	0.150	06/05/2020	ND	6.06	101	6.00	1.18	
Total BTEX	<0.300	0.300	06/05/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/04/2020	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2020	ND	192	95.9	200	5.15	
DRO >C10-C28*	<10.0	10.0	06/04/2020	ND	187	93.7	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	06/04/2020	ND					
Surrogate: 1-Chlorooctane	99.1	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	103	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

 Received:
 06/03/2020
 Sampling Date:
 06/03/2020

 Reported:
 06/09/2020
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: ** (See Notes)
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: ms

Project Location: NOT GIVEN

mg/kg

Sample ID: B - 34 3' (H001510-06)

BTEX 8021B

DIEX GOZID	iiig/	, kg	Allulyzo	a by. ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2020	ND	2.02	101	2.00	2.79	
Toluene*	<0.050	0.050	06/05/2020	ND	2.18	109	2.00	2.24	
Ethylbenzene*	<0.050	0.050	06/05/2020	ND	2.08	104	2.00	2.19	
Total Xylenes*	<0.150	0.150	06/05/2020	ND	6.06	101	6.00	1.18	
Total BTEX	<0.300	0.300	06/05/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/04/2020	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2020	ND	192	95.9	200	5.15	
DRO >C10-C28*	<10.0	10.0	06/04/2020	ND	187	93.7	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	06/04/2020	ND					
Surrogate: 1-Chlorooctane	101	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	103	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 06/03/2020 Sampling Date: 06/03/2020

Reported: 06/09/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: ** (See Notes)
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: ms

Project Location: NOT GIVEN

Sample ID: B - 35 3' (H001510-07)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2020	ND	2.02	101	2.00	2.79	
Toluene*	<0.050	0.050	06/05/2020	ND	2.18	109	2.00	2.24	
Ethylbenzene*	<0.050	0.050	06/05/2020	ND	2.08	104	2.00	2.19	
Total Xylenes*	<0.150	0.150	06/05/2020	ND	6.06	101	6.00	1.18	
Total BTEX	<0.300	0.300	06/05/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/04/2020	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2020	ND	192	95.9	200	5.15	
DRO >C10-C28*	<10.0	10.0	06/04/2020	ND	187	93.7	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	06/04/2020	ND					
Surrogate: 1-Chlorooctane	102 5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	104 9	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

 Received:
 06/03/2020
 Sampling Date:
 06/03/2020

 Reported:
 06/09/2020
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: ** (See Notes)
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: me

Project Location: NOT GIVEN

Sample ID: B - 56 2' (H001510-08)

RTFY 8021R

B1EX 8021B	mg,	/кд	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2020	ND	2.02	101	2.00	2.79	
Toluene*	<0.050	0.050	06/05/2020	ND	2.18	109	2.00	2.24	
Ethylbenzene*	<0.050	0.050	06/05/2020	ND	2.08	104	2.00	2.19	
Total Xylenes*	<0.150	0.150	06/05/2020	ND	6.06	101	6.00	1.18	
Total BTEX	<0.300	0.300	06/05/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/04/2020	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2020	ND	192	95.9	200	5.15	
DRO >C10-C28*	<10.0	10.0	06/04/2020	ND	187	93.7	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	06/04/2020	ND					
Surrogate: 1-Chlorooctane	105	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	108	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 06/03/2020 Sampling Date: 06/03/2020

Reported: 06/09/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: ** (See Notes)
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: ms

Project Location: NOT GIVEN

mg/kg

Sample ID: B - 60 3' (H001510-09)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2020	ND	2.02	101	2.00	2.79	
Toluene*	<0.050	0.050	06/05/2020	ND	2.18	109	2.00	2.24	
Ethylbenzene*	<0.050	0.050	06/05/2020	ND	2.08	104	2.00	2.19	
Total Xylenes*	<0.150	0.150	06/05/2020	ND	6.06	101	6.00	1.18	
Total BTEX	<0.300	0.300	06/05/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/04/2020	ND	400	100	400	3.92	
TPH 8015M	mg,	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2020	ND	192	95.9	200	5.15	
DRO >C10-C28*	<10.0	10.0	06/04/2020	ND	187	93.7	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	06/04/2020	ND					
Surrogate: 1-Chlorooctane	98.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	104	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received: 06/03/2020 Sampling Date: 06/03/2020 Reported: 06/09/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: ** (See Notes) Project Number: Sample Received By: MSU 551H Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: W - 21 0-2.5' (H001510-10)

BTEX 8021B	mg/kg		Analyze	Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2020	ND	2.02	101	2.00	2.79	
Toluene*	<0.050	0.050	06/05/2020	ND	2.18	109	2.00	2.24	
Ethylbenzene*	<0.050	0.050	06/05/2020	ND	2.08	104	2.00	2.19	
Total Xylenes*	<0.150	0.150	06/05/2020	ND	6.06	101	6.00	1.18	
Total BTEX	<0.300	0.300	06/05/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	06/04/2020	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2020	ND	192	95.9	200	5.15	
DRO >C10-C28*	<10.0	10.0	06/04/2020	ND	187	93.7	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	06/04/2020	ND					
Surrogate: 1-Chlorooctane	96.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	102 9	42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 06/03/2020 Sampling Date: 06/03/2020 Reported: 06/09/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: ** (See Notes)
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: ms

Project Location: NOT GIVEN

Sample ID: W - 41 0-2' (H001510-11)

BTEX 8021B

DIEX GOZID	11197	ng .	Allulyzo	a by. ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2020	ND	2.02	101	2.00	2.79	
Toluene*	<0.050	0.050	06/05/2020	ND	2.18	109	2.00	2.24	
Ethylbenzene*	<0.050	0.050	06/05/2020	ND	2.08	104	2.00	2.19	
Total Xylenes*	<0.150	0.150	06/05/2020	ND	6.06	101	6.00	1.18	
Total BTEX	<0.300	0.300	06/05/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	06/04/2020	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2020	ND	192	95.9	200	5.15	
DRO >C10-C28*	<10.0	10.0	06/05/2020	ND	187	93.7	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	06/05/2020	ND					
Surrogate: 1-Chlorooctane	107	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	114 9	% 42.2-15	6						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

Sampler - UPS - Bus - Other:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

Cool Intact
Yes
Yes Sample Condition

CHECKED BY:

(Initials)

Delivered By: (Circle One)



101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By: Relinquished By: Phone #: Project Manager: nalyses. All daims including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal ervice. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of p Sampler Name: Project Location: Project Name: Project #: Company Name: Address: Lab I.D. FOR LAB USE ONLY BeB On-File 6-35 6-25 B-60 13-32 MSH Jacob Saenz R.T. Hicks Consultants Andrew Parker Sample I.D El 15. Time: are whatsnever shall be deemed waived unless made in writing and received by Cardinal wathin 30 days after completion of the applicable anal damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by cilent, its subsidiaries, 6-3-20 Fax #: Project Owner: State: 11.5F; 3F7 3F7 arei Received By: Received By: (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER MATRIX OIL SLUDGE State: OTHER Phone #: City: P.O. #: Fax #: Attn: Company: R.T. Hicks Address: ACID/BASE: PRESERV ICE / COOL MSW BILL OTHER: andrew@rthicks Send to consult.com 2/3/20 Zip: DATE SAMPLING 70 Phone Result: Fax Result: REMARKS: 0:150x dia 4.51m 8.150 300 8.45 8130 1/5% Barn Den TIME 8 CHLORIDE ☐ Yes TPH (GRO+DRO+MRO) Rosh Cl only 52 N N BENZENE, BTEX Add'l Phone #: Add'l Fax #: ANALYSIS REQUES 1



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:	R.T. Hicks Consultants		B/LL 70		ANA	ANALYSIS REQUEST	
Project Manager:	Andrew Parker		P.O. #: M.SU 55	H)			
Address: On-File	ile		Company: R.T. Hicks	S			
City:	State:	Zip:	Attn: Send to		_		
Phone #:	Fax#:		Address: andrew@rthicks	rthicks			
Project #:	Project Owner:	7.	city: consult.com				
Project Name: Advance	Vence fraction		State: Zip:		(0)		
Project Location:	MSn 55/14		#				
Sampler Name:	Jacob Saenz		Fax #:		_		
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING				
Lab I.D.	Sample I.D.	# CONTAINERS GROUNDWATER WASTEWATER	OTHER: ACID/BASE: ICE / COOL OTHER:	CHLORIDE	TPH (GRO+I		
W.	-41 0-25	2	× a	2	2		
analyses. All claims including the service. In no event shall Cardin affiliates or successors arising ou	TLEASE WITE. LIBBING and Damages, Ladrona's liabing and clients exclusive retiredy for any olam arising whether based in contract or for, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without (initiation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	This exclusive termoty for any claim arising whether based in contract or fort, shall be limeded to the amount paid by the client for it assess what occurs shall be deemed walved unless made in writing and received by Cardinal within 30 days after completion of the assess what of the state	t or tort, shall be limited to the amount pa d received by Cardinal within 30 days afto loss of use, or loss of profits incurred by is based upon any of the above stated re	d by the client for the ir completion of the applicable slient, its subsidiaries, asons or otherwise.			
Span SM	125	Received By:	*	뉴	☐ Yes ☐ No Add'I	Add'l Phone #: Add'l Fax #:	
Relinquished By:	Date:	Received By:			Rush	Rush CL only	
Delivered By: (6.90		CHECKED BY: (Inikials)	200			
Sampler - UPS - Bus - Other:		# 1/3 Xes X Yes	hs	97			



June 10, 2020

ANDREW PARKER
R T HICKS CONSULTANTS
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE, NM 87104

RE: ADVANCE ENERGY

Enclosed are the results of analyses for samples received by the laboratory on 06/04/20 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keine

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 06/04/2020 Sampling Date: 06/04/2020

Reported: 06/10/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 07 1' (H001523-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2020	ND	1.99	99.6	2.00	0.880	
Toluene*	<0.050	0.050	06/06/2020	ND	1.94	96.9	2.00	0.901	
Ethylbenzene*	<0.050	0.050	06/06/2020	ND	1.96	98.1	2.00	0.890	
Total Xylenes*	<0.150	0.150	06/06/2020	ND	5.65	94.2	6.00	1.12	
Total BTEX	<0.300	0.300	06/06/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1660	16.0	06/05/2020	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2020	ND	190	94.8	200	7.81	
DRO >C10-C28*	<10.0	10.0	06/06/2020	ND	174	87.0	200	13.4	
EXT DRO >C28-C36	<10.0	10.0	06/06/2020	ND					
Surrogate: 1-Chlorooctane	95.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	108	% 42.2-15	6						

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Celey & Keene



Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 06/04/2020 Sampling Date: 06/04/2020

Reported: 06/10/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Applyzod By: MC

Project Location: NOT GIVEN

Sample ID: B - 22 5.5' (H001523-02)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2020	ND	1.99	99.6	2.00	0.880	
Toluene*	<0.050	0.050	06/06/2020	ND	1.94	96.9	2.00	0.901	
Ethylbenzene*	<0.050	0.050	06/06/2020	ND	1.96	98.1	2.00	0.890	
Total Xylenes*	<0.150	0.150	06/06/2020	ND	5.65	94.2	6.00	1.12	
Total BTEX	<0.300	0.300	06/06/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/05/2020	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2020	ND	190	94.8	200	7.81	
DRO >C10-C28*	<10.0	10.0	06/06/2020	ND	174	87.0	200	13.4	
EXT DRO >C28-C36	<10.0	10.0	06/06/2020	ND					
Surrogate: 1-Chlorooctane	105	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	116	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 06/04/2020 Sampling Date: 06/04/2020

Reported: 06/10/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 26 3' (H001523-03)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2020	ND	1.99	99.6	2.00	0.880	
Toluene*	<0.050	0.050	06/06/2020	ND	1.94	96.9	2.00	0.901	
Ethylbenzene*	<0.050	0.050	06/06/2020	ND	1.96	98.1	2.00	0.890	
Total Xylenes*	<0.150	0.150	06/06/2020	ND	5.65	94.2	6.00	1.12	
Total BTEX	<0.300	0.300	06/06/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/05/2020	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2020	ND	183	91.5	200	5.94	
DRO >C10-C28*	13.2	10.0	06/05/2020	ND	170	85.0	200	8.33	
EXT DRO >C28-C36	<10.0	10.0	06/05/2020	ND					
Surrogate: 1-Chlorooctane	97.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	106 9	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Applyzod By: MC

 Received:
 06/04/2020
 Sampling Date:
 06/04/2020

 Reported:
 06/10/2020
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 54 5.5' (H001523-04)

RTFY 8021R

BIEX 8021B	mg	/ kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2020	ND	1.99	99.6	2.00	0.880	
Toluene*	<0.050	0.050	06/06/2020	ND	1.94	96.9	2.00	0.901	
Ethylbenzene*	<0.050	0.050	06/06/2020	ND	1.96	98.1	2.00	0.890	
Total Xylenes*	<0.150	0.150	06/06/2020	ND	5.65	94.2	6.00	1.12	
Total BTEX	<0.300	0.300	06/06/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/05/2020	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2020	ND	183	91.5	200	5.94	
DRO >C10-C28*	<10.0	10.0	06/05/2020	ND	170	85.0	200	8.33	
EXT DRO >C28-C36	<10.0	10.0	06/05/2020	ND					
Surrogate: 1-Chlorooctane	105	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	114	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 06/04/2020 Sampling Date: 06/04/2020

Reported: 06/10/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Project Number: Sample Received By: MSU 551H Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 57 2' (H001523-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2020	ND	1.99	99.6	2.00	0.880	
Toluene*	<0.050	0.050	06/06/2020	ND	1.94	96.9	2.00	0.901	
Ethylbenzene*	<0.050	0.050	06/06/2020	ND	1.96	98.1	2.00	0.890	
Total Xylenes*	<0.150	0.150	06/06/2020	ND	5.65	94.2	6.00	1.12	
Total BTEX	<0.300	0.300	06/06/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/05/2020	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2020	ND	183	91.5	200	5.94	
DRO >C10-C28*	<10.0	10.0	06/05/2020	ND	170	85.0	200	8.33	
EXT DRO >C28-C36	<10.0	10.0	06/05/2020	ND					
Surrogate: 1-Chlorooctane	99.3 %	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	110 %	6 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 06/04/2020 Sampling Date: 06/04/2020

Reported: 06/10/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MS

Project Location: NOT GIVEN

Sample ID: W - 28 2-4' (H001523-06)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2020	ND	1.99	99.6	2.00	0.880	
Toluene*	<0.050	0.050	06/06/2020	ND	1.94	96.9	2.00	0.901	
Ethylbenzene*	<0.050	0.050	06/06/2020	ND	1.96	98.1	2.00	0.890	
Total Xylenes*	<0.150	0.150	06/06/2020	ND	5.65	94.2	6.00	1.12	
Total BTEX	<0.300	0.300	06/06/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/05/2020	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2020	ND	183	91.5	200	5.94	
DRO >C10-C28*	<10.0	10.0	06/05/2020	ND	170	85.0	200	8.33	
EXT DRO >C28-C36	<10.0	10.0	06/05/2020	ND					
Surrogate: 1-Chlorooctane	103	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	111	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

 Received:
 06/04/2020
 Sampling Date:
 06/04/2020

 Reported:
 06/10/2020
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: W - 29 0-4' (H001523-07)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2020	ND	1.99	99.6	2.00	0.880	
Toluene*	<0.050	0.050	06/06/2020	ND	1.94	96.9	2.00	0.901	
Ethylbenzene*	<0.050	0.050	06/06/2020	ND	1.96	98.1	2.00	0.890	
Total Xylenes*	<0.150	0.150	06/06/2020	ND	5.65	94.2	6.00	1.12	
Total BTEX	<0.300	0.300	06/06/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	06/05/2020	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2020	ND	183	91.5	200	5.94	
DRO >C10-C28*	59.4	10.0	06/05/2020	ND	170	85.0	200	8.33	
EXT DRO >C28-C36	<10.0	10.0	06/05/2020	ND					
Surrogate: 1-Chlorooctane	99.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	112	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 06/04/2020 Sampling Date: 06/04/2020

Reported: 06/10/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Applyzod By: MC

Project Location: NOT GIVEN

Sample ID: W - 30 0-2' (H001523-08)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2020	ND	1.99	99.6	2.00	0.880	
Toluene*	<0.050	0.050	06/06/2020	ND	1.94	96.9	2.00	0.901	
Ethylbenzene*	<0.050	0.050	06/06/2020	ND	1.96	98.1	2.00	0.890	
Total Xylenes*	<0.150	0.150	06/06/2020	ND	5.65	94.2	6.00	1.12	
Total BTEX	<0.300	0.300	06/06/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	06/05/2020	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2020	ND	183	91.5	200	5.94	
DRO >C10-C28*	518	10.0	06/05/2020	ND	170	85.0	200	8.33	
EXT DRO >C28-C36	142	10.0	06/05/2020	ND					
Surrogate: 1-Chlorooctane	84.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	103	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

 Received:
 06/04/2020
 Sampling Date:
 06/04/2020

 Reported:
 06/10/2020
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: W - 31 2-4' (H001523-09)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2020	ND	1.70	84.8	2.00	12.8	
Toluene*	<0.050	0.050	06/08/2020	ND	1.72	86.2	2.00	12.7	
Ethylbenzene*	<0.050	0.050	06/08/2020	ND	1.75	87.4	2.00	12.8	
Total Xylenes*	<0.150	0.150	06/08/2020	ND	5.08	84.7	6.00	12.6	
Total BTEX	<0.300	0.300	06/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/05/2020	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2020	ND	183	91.5	200	5.94	
DRO >C10-C28*	<10.0	10.0	06/05/2020	ND	170	85.0	200	8.33	
EXT DRO >C28-C36	<10.0	10.0	06/05/2020	ND					
Surrogate: 1-Chlorooctane	105	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	115	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received: 06/04/2020 Sampling Date: 06/04/2020 Reported: 06/10/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Sample Received By: Project Number: MSU 551H Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: W - 37 0-4' (H001523-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2020	ND	1.70	84.8	2.00	12.8	
Toluene*	<0.050	0.050	06/08/2020	ND	1.72	86.2	2.00	12.7	
Ethylbenzene*	<0.050	0.050	06/08/2020	ND	1.75	87.4	2.00	12.8	
Total Xylenes*	<0.150	0.150	06/08/2020	ND	5.08	84.7	6.00	12.6	
Total BTEX	<0.300	0.300	06/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1710	16.0	06/05/2020	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2020	ND	183	91.5	200	5.94	
DRO >C10-C28*	10.4	10.0	06/05/2020	ND	170	85.0	200	8.33	
EXT DRO >C28-C36	<10.0	10.0	06/05/2020	ND					
Surrogate: 1-Chlorooctane	99.4 %	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	113 %	6 42.2-15	6						

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Celey D. Keine



Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

 Received:
 06/04/2020
 Sampling Date:
 06/04/2020

 Reported:
 06/10/2020
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact

Project Number: MSU 551H Sample Received By: Kelly Jacobson
Project Location: NOT GIVEN

Applyzod By: MC

Sample ID: W - 42 0-4' (H001523-11)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2020	ND	1.70	84.8	2.00	12.8	
Toluene*	<0.050	0.050	06/08/2020	ND	1.72	86.2	2.00	12.7	
Ethylbenzene*	<0.050	0.050	06/08/2020	ND	1.75	87.4	2.00	12.8	
Total Xylenes*	<0.150	0.150	06/08/2020	ND	5.08	84.7	6.00	12.6	
Total BTEX	<0.300	0.300	06/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.4	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/05/2020	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2020	ND	186	92.9	200	5.64	
DRO >C10-C28*	84.1	10.0	06/06/2020	ND	185	92.4	200	4.74	
EXT DRO >C28-C36	<10.0	10.0	06/06/2020	ND					
Surrogate: 1-Chlorooctane	96.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	107	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 06/04/2020 Sampling Date: 06/04/2020

Reported: 06/10/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MS

Project Location: NOT GIVEN

Sample ID: W - 43 0 - 1.5' (H001523-12)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2020	ND	1.70	84.8	2.00	12.8	
Toluene*	<0.050	0.050	06/08/2020	ND	1.72	86.2	2.00	12.7	
Ethylbenzene*	<0.050	0.050	06/08/2020	ND	1.75	87.4	2.00	12.8	
Total Xylenes*	<0.150	0.150	06/08/2020	ND	5.08	84.7	6.00	12.6	
Total BTEX	<0.300	0.300	06/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	06/05/2020	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2020	ND	186	92.9	200	5.64	
DRO >C10-C28*	<10.0	10.0	06/06/2020	ND	185	92.4	200	4.74	
EXT DRO >C28-C36	<10.0	10.0	06/06/2020	ND					
Surrogate: 1-Chlorooctane	86.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.5	% 42.2-15	6						

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Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

QM-07

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: R.T. Hicks Consultants	ants	BILL 70	ANALYSIS	REQUEST
73	BAARU	P.O. #: MSQ SS/H		
Address: On-File		ny: R.T. Hicks		
City:	State: Zip:	Attn: Send to		
Phone #:	Fax#:	Address: andrew@rthicks		
Project#: Pr	Project Owner:			
ame: Advance Energy		••	(0)	
Project Location: MS4 551 H		*	MR	
Sampler Name: Jacob Saenz		Fax #:	-	
FOR LAB USE ONLY		PRESERV. SAMPLING	+DR	
Lab I.D. Sample I.D.	G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL DIL SLUDGE	OTHER: ACID/BASE: CE/COOL OTHER:	CHLORID TPH (GRO- BENZENE,	
13-07	- i	10/4/20 R	Y X Y	
2 6-22	5.511 1 112.5	502		
3 15-26	367	2.200.0		
48-84	5.5%	740		
5 18-57	2FT	9:30-		
SE-M 9	2-457	1000		
7 W-29	134-0	10:300		
8 W-30	9-2F7	llon		
9 N-3/	1-4FT	11:30		
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analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, prices of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based-dipon any of the above stated reasons or otherwise.	whatsoever shall be deemed walved unless made in writing ar- lal damages, including without limitation, business interruptions, ruices hereunder by Cardinal, regardless of whether such claim	d received by Cardinal within 30 days after completion of the loss of use, or loss of profits incurred by client, its subsidiari is based doon any of the above stated reasons or otherwise	the applicable daries.	
SA(OB SAEM	Time; 45 Received by:	Phone Result: Fax Result: REMARKS:	esult:	
Relinquished By:	3 3	Rush	Sh CLONLY	
Delivered By: (Circle One) 5.6		n CHECKED BY:		
Sampler - UPS - Bus - Other:	HI3 Thes Tres			

Released to Imaging: 7/27/2021 1:32:26 PM



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: R.T. Hicks Consultants	015/1/S	0	ANALYSIS REQUEST
Project Manager: Andrew Parker	F.O. #: M54 S51 H	H 155	
Address: On-File	Company: R.T. H	Hicks	
State:	Zip: Attn: Send to		
Phone #: Fax #:	Address: andrew	andrew@rthicks	
Project #: Project Owner:	city: consult.com		
Project Name: Podien to Energy		kO)	
on: MSM	#	MIF	
Jacob Saenz	Fax #:		
FOR LAB USE ONLY	MATRIX PRESERV.	_	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	CHLORIDE TPH (GRO+) BENZENE, I	
17/1-0 E4-W	x ×	5	
12 W-43 D-1.5FF			
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Relinquished By: Shoop SHENZ Time: US			66
	Received By:	Krsh	17W077
Delivered By: (Circle One) 5.60	Sample Condition CHECKED BY: Cool Intact (Initials)	0,2	
Sampler - UPS - Bus - Other:	No Nos	0	



June 11, 2020

ANDREW PARKER
R T HICKS CONSULTANTS
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE, NM 87104

RE: ADVANCE ENERGY

Enclosed are the results of analyses for samples received by the laboratory on 06/05/20 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Analyzed By: MS

Received: 06/05/2020
Reported: 06/11/2020
Project Name: ADVANCE ENERGY

mg/kg

Project Number: MSU 551H
Project Location: NOT GIVEN

Sampling Date: 06/05/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact

Sample Received By: Kelly Jacobson

Sample ID: B - 18 5.5 FT (H001532-01)

BTEX 8021B

DIEX 0021B	ilig	ky	Allalyze	u by: M3					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2020	ND	1.70	84.8	2.00	12.8	
Toluene*	<0.050	0.050	06/08/2020	ND	1.72	86.2	2.00	12.7	
Ethylbenzene*	<0.050	0.050	06/08/2020	ND	1.75	87.4	2.00	12.8	
Total Xylenes*	<0.150	0.150	06/08/2020	ND	5.08	84.7	6.00	12.6	
Total BTEX	<0.300	0.300	06/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/05/2020	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2020	ND	187	93.7	200	7.84	
DRO >C10-C28*	<10.0	10.0	06/08/2020	ND	188	93.9	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	06/08/2020	ND					
Surrogate: 1-Chlorooctane	103	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	117	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 06/05/2020 Sampling Date: 06/05/2020

Reported: 06/11/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MS

Project Location: NOT GIVEN

Sample ID: B - 19 5.5 FT (H001532-02)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2020	ND	1.70	84.8	2.00	12.8	
Toluene*	<0.050	0.050	06/08/2020	ND	1.72	86.2	2.00	12.7	
Ethylbenzene*	<0.050	0.050	06/08/2020	ND	1.75	87.4	2.00	12.8	
Total Xylenes*	<0.150	0.150	06/08/2020	ND	5.08	84.7	6.00	12.6	
Total BTEX	<0.300	0.300	06/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/05/2020	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2020	ND	187	93.7	200	7.84	
DRO >C10-C28*	<10.0	10.0	06/08/2020	ND	188	93.9	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	06/08/2020	ND					
Surrogate: 1-Chlorooctane	102 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	112 9	% 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Analyzed By: MS

Fax To: NONE

Received: 06/05/2020 Sampling Date: 06/05/2020

Reported: 06/11/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 21 5.5 FT (H001532-03)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2020	ND	1.70	84.8	2.00	12.8	
Toluene*	<0.050	0.050	06/08/2020	ND	1.72	86.2	2.00	12.7	
Ethylbenzene*	<0.050	0.050	06/08/2020	ND	1.75	87.4	2.00	12.8	
Total Xylenes*	<0.150	0.150	06/08/2020	ND	5.08	84.7	6.00	12.6	
Total BTEX	<0.300	0.300	06/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/05/2020	ND	400	100	400	7.69	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2020	ND	187	93.7	200	7.84	
DRO >C10-C28*	<10.0	10.0	06/08/2020	ND	188	93.9	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	06/08/2020	ND					
Surrogate: 1-Chlorooctane	101 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	113 9	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 06/05/2020 Sampling Date: 06/05/2020

Reported: Sampling Type: Soil 06/11/2020

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact Sample Received By: Project Number: MSU 551H Kelly Jacobson

Project Location: NOT GIVEN

Sample ID: B - 21 CL 7.5 FT (H001532-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2020	ND	1.70	84.8	2.00	12.8	
Toluene*	<0.050	0.050	06/08/2020	ND	1.72	86.2	2.00	12.7	
Ethylbenzene*	<0.050	0.050	06/08/2020	ND	1.75	87.4	2.00	12.8	
Total Xylenes*	< 0.150	0.150	06/08/2020	ND	5.08	84.7	6.00	12.6	
Total BTEX	<0.300	0.300	06/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	06/05/2020	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2020	ND	187	93.7	200	7.84	
DRO >C10-C28*	<10.0	10.0	06/08/2020	ND	188	93.9	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	06/08/2020	ND					
Surrogate: 1-Chlorooctane	101 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	110 %	6 42.2-15	6						

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Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 06/05/2020 Sampling Date: 06/05/2020

Reported: 06/11/2020 Sampling Type: Soil

Project Name: ADVANCE ENERGY Sampling Condition: Cool & Intact
Project Number: MSU 551H Sample Received By: Kelly Jacobson

Analyzed By: MC

Project Location: NOT GIVEN

Sample ID: W - 32 0 - 4 FT (H001532-05)

RTFY 8021R

B1EX 8021B	mg/	кд	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2020	ND	1.70	84.8	2.00	12.8	
Toluene*	<0.050	0.050	06/08/2020	ND	1.72	86.2	2.00	12.7	
Ethylbenzene*	<0.050	0.050	06/08/2020	ND	1.75	87.4	2.00	12.8	
Total Xylenes*	<0.150	0.150	06/08/2020	ND	5.08	84.7	6.00	12.6	
Total BTEX	<0.300	0.300	06/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	06/05/2020	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2020	ND	187	93.7	200	7.84	
DRO >C10-C28*	<10.0	10.0	06/08/2020	ND	188	93.9	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	06/08/2020	ND					
Surrogate: 1-Chlorooctane	102 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	112 9	% 42.2-15	6						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Relinquished By:-

Time; 15

Received By:

Pate: 5-20

Received By:

Phone Result:
Fax Result:
REMARKS:

☐ Yes ☐ No Add'I Phone #:

Time:

affiliates or successors arising out of or related to the per Relinquished By: 5A ca.5 5AEN 2



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476 101 East Marland, Hobbs, NM 88240

	Service Control Control							1		
Project Manager: Andr	Andrew Parker			P.O. #: MS	MS455114	1			_	
Address: On-File				company: R.T. Hicks	T. Hicks					
City:	State:	Zip:		Attn: Se	Send to					
Phone #:	Fax #:			Address: an	andrew@rthicks	iicks				
Project#:	Project Owner:			City: co	consult.com			Ü.		
Project Name: Advanto	ENING				Zip:			(O)		
Project Location: MS6	M1-55 145W			#:				MF		
Sampler Name: Jacob Saenz	aenz			Fax #:				0+	EX	
FOR LAB USE ONLY		P	MATRIX	PRESERV.	SAMPLING	u"		DR	BTI	
00 532	Sample I.D.	(G)RAB OR (C)OMI # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER :	DATE	TIME	CHLORIDE	TPH (GRO+	BENZENE,	
1 8-16	5.5.5		×.	23,		die	R,	<	<	
2 8-19	5.5FT	7	1	-	1 1	8.30mm	_		- 4	
3 8-21	5,5,5,7	7				gen				
J18-81 h	7.577	0			, 9	971500	`	\	,	
5 W-32	134-0	0	*	<	< -	1200	-	-	4	

CHECKED BY:

Rush CL ONLY

Sampler - UPS - Bus - Other: Delivered By: (Circle One)



July 31, 2020

ANDREW PARKER
R T HICKS CONSULTANTS
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE, NM 87104

RE: ADVANCE ENERGY

Enclosed are the results of analyses for samples received by the laboratory on 07/30/20 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

 Received:
 07/30/2020
 Sampling Date:
 07/29/2020

 Reported:
 07/31/2020
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: ** (See Notes)
Project Number: MSU 551H Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: NOT GIVEN

mg/kg

Sample ID: W - 209 BF 0-1' (H001973-01)

BTEX 8021B

DILX 0021B	ilig/	r r g	Allalyze	a by. 143					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2020	ND	2.02	101	2.00	9.31	
Toluene*	<0.050	0.050	07/31/2020	ND	2.02	101	2.00	9.09	
Ethylbenzene*	<0.050	0.050	07/31/2020	ND	2.04	102	2.00	8.86	
Total Xylenes*	<0.150	0.150	07/31/2020	ND	5.91	98.5	6.00	9.06	
Total BTEX	<0.300	0.300	07/31/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/31/2020	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2020	ND	195	97.5	200	7.70	
DRO >C10-C28*	17.1	10.0	07/31/2020	ND	195	97.5	200	11.3	
EXT DRO >C28-C36	<10.0	10.0	07/31/2020	ND					
Surrogate: 1-Chlorooctane	87.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	89.3	% 42.2-15	6						

Cardinal Laboratories *=Accredited Analyte

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Celey & Keene



Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 07/30/2020 Sampling Date: 07/29/2020

Reported: 07/31/2020 Sampling Type: Soil
Project Name: ADVANCE ENERGY Sampling Condition: ** (

Project Name: ADVANCE ENERGY Sampling Condition: ** (See Notes)
Project Number: MSU 551H Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: NOT GIVEN

mg/kg

Sample ID: W - 208 BF 0-2' (H001973-02)

BTEX 8021B

DILX OUZID	ıııg,	, kg	Alldiyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2020	ND	2.02	101	2.00	9.31	
Toluene*	<0.050	0.050	07/31/2020	ND	2.02	101	2.00	9.09	
Ethylbenzene*	<0.050	0.050	07/31/2020	ND	2.04	102	2.00	8.86	
Total Xylenes*	<0.150	0.150	07/31/2020	ND	5.91	98.5	6.00	9.06	
Total BTEX	<0.300	0.300	07/31/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	07/31/2020	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2020	ND	195	97.5	200	7.70	
DRO >C10-C28*	21.1	10.0	07/31/2020	ND	195	97.5	200	11.3	
EXT DRO >C28-C36	<10.0	10.0	07/31/2020	ND					
Surrogate: 1-Chlorooctane	79.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	82.3	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

 Received:
 07/30/2020
 Sampling Date:
 07/29/2020

 Reported:
 07/31/2020
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: ** (See Notes)
Project Number: MSU 551H Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: NOT GIVEN

Sample ID: W - 207 BF 0-3' (H001973-03)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2020	ND	2.02	101	2.00	9.31	
Toluene*	<0.050	0.050	07/31/2020	ND	2.02	101	2.00	9.09	
Ethylbenzene*	<0.050	0.050	07/31/2020	ND	2.04	102	2.00	8.86	
Total Xylenes*	<0.150	0.150	07/31/2020	ND	5.91	98.5	6.00	9.06	
Total BTEX	<0.300	0.300	07/31/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	07/31/2020	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2020	ND	195	97.5	200	7.70	
DRO >C10-C28*	45.7	10.0	07/31/2020	ND	195	97.5	200	11.3	
EXT DRO >C28-C36	<10.0	10.0	07/31/2020	ND					
Surrogate: 1-Chlorooctane	76.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	79.8	% 42.2-15	6						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

 Received:
 07/30/2020
 Sampling Date:
 07/29/2020

 Reported:
 07/31/2020
 Sampling Type:
 Soil

Project Name: ADVANCE ENERGY Sampling Condition: ** (See Notes)
Project Number: MSU 551H Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: NOT GIVEN

Sample ID: W - 212 BF 0-2' (H001973-04)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2020	ND	2.02	101	2.00	9.31	
Toluene*	<0.050	0.050	07/31/2020	ND	2.02	101	2.00	9.09	
Ethylbenzene*	<0.050	0.050	07/31/2020	ND	2.04	102	2.00	8.86	
Total Xylenes*	<0.150	0.150	07/31/2020	ND	5.91	98.5	6.00	9.06	
Total BTEX	<0.300	0.300	07/31/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/31/2020	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2020	ND	195	97.5	200	7.70	
DRO >C10-C28*	13.9	10.0	07/31/2020	ND	195	97.5	200	11.3	
EXT DRO >C28-C36	<10.0	10.0	07/31/2020	ND					
Surrogate: 1-Chlorooctane	75.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	76.2	% 42.2-15	6						

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Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Relinquished By:

AGB

Time:

Received By:

REMARKS:

Seperate

100

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Observed Temp. °C Corrected Temp. °C

7.6

Sample Condition
Cool Intact
Yes 7 Yes
No No

CHECKED BY: (Initials)

Time:

affiliates or successors arising out of or related to the performance of services hereunder by Ca Relinquished By:

service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries.

dinal, regardless of whether such claim is based.
Received, By:

All Results are emailed. Please provide Email address:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: R. T. HILAS COASU/15	BILL TO	ANALYSIS REQUEST
Project Manager: Andrew Parker	P.O. #:	
Address: On - File	Company: RT Hicks	
City: State:	zip: Attn: Send to	
Phone #: Fax #:	Address: Andrew @ ! thicks	
Project #: Project Owner:	city: consult-com	
Project Name: Advorce Frees	State: Zip:	
50	Phone #:	20 -
Sampler Name: 5AWB SAEN2	Fax #:	Bi
FOR LAB USE ONLY	MATRIX PRESERV. SAMPLING	
Lab I.D. Sample I.D. 4601975	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	Chloride TOH CER BENZENE
	00/16/2 × ×	I A A A
135.0 308 m 2		hilbert I am I am I am I am I am I am I am I a
3 W-207 BF 0-3FT		11:300
14-0 38 EIR-MA	6	11:45.0
PLEASE NOTE: Liability and Damagos. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable	any dairn arising whether based in contract or tort, shall be limited to the arrount paid by the deemed waiwed unless made in writing and received by Cardinal within 30 days after comp	e client for the Jetion of the applicable

Thermometer ID #113 Correction Factor None Turnaround Time:

Standard Rush

Bacteria (only) Sample Condition
Cool Intact Observed Temp.

Yes Yes
No Corrected Temp.

Observed Temp. °C Corrected Temp. °C



August 04, 2020

ANDREW PARKER
R T HICKS CONSULTANTS
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE, NM 87104

RE: ADVANCE ENERGY

Enclosed are the results of analyses for samples received by the laboratory on 07/30/20 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Total Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Project: ADVANCE ENERGY
Project Number: MSU 551H

Project Manager: ANDREW PARKER

Fax To: NONE

Reported: 04-Aug-20 11:19

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B - 201 4.2'	H001974-01	Soil	28-Jul-20 08:00	30-Jul-20 16:50
B - 202 4.2'	H001974-02	Soil	28-Jul-20 08:30	30-Jul-20 16:50
B - 203 2'	H001974-03	Soil	28-Jul-20 09:00	30-Jul-20 16:50
B - 204 1.5'	H001974-04	Soil	28-Jul-20 10:00	30-Jul-20 16:50
B - 205 2'	H001974-05	Soil	28-Jul-20 11:00	30-Jul-20 16:50
B - 206 1'	H001974-06	Soil	28-Jul-20 12:00	30-Jul-20 16:50
B - 207 1'	H001974-07	Soil	28-Jul-20 12:30	30-Jul-20 16:50
W - 201 0-4'	H001974-08	Soil	29-Jul-20 08:00	30-Jul-20 16:50
W - 202 0-4'	H001974-09	Soil	29-Jul-20 08:15	30-Jul-20 16:50
W - 203 0-4'	H001974-10	Soil	29-Jul-20 08:30	30-Jul-20 16:50
W - 204 0-1.5'	H001974-11	Soil	29-Jul-20 09:00	30-Jul-20 16:50
W - 205 0-1'	H001974-12	Soil	29-Jul-20 09:30	30-Jul-20 16:50
W - 206 1-2'	H001974-13	Soil	29-Jul-20 10:00	30-Jul-20 16:50
W - 210 0-2'	H001974-14	Soil	29-Jul-20 10:30	30-Jul-20 16:50
W - 211 2-4'	H001974-15	Soil	30-Jul-20 08:00	30-Jul-20 16:50
W - 213 0-2'	H001974-16	Soil	30-Jul-20 09:00	30-Jul-20 16:50
B - 208 TRENCH 7'	H001974-17	Soil	30-Jul-20 10:15	30-Jul-20 16:50
B - 209 2'	H001974-18	Soil	30-Jul-20 10:30	30-Jul-20 16:50

08/04/20 - A login mistake was made on the sample ID for sample -18. This is the revised report with the correct Sample ID and this report will replace the one sent on 07/31/20.

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Celey D. Keene



Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Project: ADVANCE ENERGY
Project Number: MSU 551H

Project Manager: ANDREW PARKER

Fax To: NONE

Reported: 04-Aug-20 11:19

B - 201 4.2' H001974-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	96.0		16.0	mg/kg	4	0073004	GM	31-Jul-20	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			94.8 %	73.3	-129	0073107	MS	31-Jul-20	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	0073103	MS	31-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0073103	MS	31-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0073103	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctane			78.5 %	44.3	-144	0073103	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctadecane			80.9 %	42.2	-156	0073103	MS	31-Jul-20	8015B	

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Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Project: ADVANCE ENERGY
Project Number: MSU 551H

Project Manager: ANDREW PARKER

Fax To: NONE

Reported: 04-Aug-20 11:19

B - 202 4.2' H001974-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Labora	tories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	0073004	GM	31-Jul-20	4500-Cl-B	
Volatile Organic Compound	ls by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Surrogate: 4-Bromofluorobenzene (P	PID)		94.3 %	73.3	2-129	0073107	MS	31-Jul-20	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	0073103	MS	31-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0073103	MS	31-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0073103	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctane			75.6 %	44.3	?-144	0073103	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctadecane			76.9 %	42.2	2-156	0073103	MS	31-Jul-20	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Project: ADVANCE ENERGY
Project Number: MSU 551H

Project Manager: ANDREW PARKER

Fax To: NONE

Reported: 04-Aug-20 11:19

B - 203 2' H001974-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	256		16.0	mg/kg	4	0073004	GM	31-Jul-20	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		95.1 %	73.3	-129	0073107	MS	31-Jul-20	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	0073103	MS	31-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0073103	MS	31-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0073103	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctane			74.8 %	44.3	-144	0073103	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctadecane			75.8 %	42.2	-156	0073103	MS	31-Jul-20	8015B	

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Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Project: ADVANCE ENERGY
Project Number: MSU 551H

Project Manager: ANDREW PARKER

Fax To: NONE

Reported: 04-Aug-20 11:19

B - 204 1.5' H001974-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
Inorganic Compounds										
Chloride	240		16.0	mg/kg	4	0073004	GM	31-Jul-20	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		93.7 %	73.3	-129	0073107	MS	31-Jul-20	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	0073103	MS	31-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0073103	MS	31-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0073103	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctane			81.4 %	44.3	-144	0073103	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctadecane			82.6 %	42.2	-156	0073103	MS	31-Jul-20	8015B	

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Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Project: ADVANCE ENERGY
Project Number: MSU 551H

Project Manager: ANDREW PARKER

Fax To: NONE

Reported: 04-Aug-20 11:19

B - 205 2' H001974-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	0073004	GM	31-Jul-20	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		93.5 %	73.3	-129	0073107	MS	31-Jul-20	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	0073103	MS	31-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0073103	MS	31-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0073103	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctane			82.1 %	44.3	-144	0073103	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctadecane			83.9 %	42.2	-156	0073103	MS	31-Jul-20	8015B	

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Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Project: ADVANCE ENERGY
Project Number: MSU 551H

Project Manager: ANDREW PARKER

Fax To: NONE

Reported: 04-Aug-20 11:19

B - 206 1' H001974-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	0073004	GM	31-Jul-20	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			94.2 %	73.3	-129	0073107	MS	31-Jul-20	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	0073103	MS	31-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0073103	MS	31-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0073103	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctane			74.7 %	44.3	-144	0073103	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctadecane			75.6 %	42.2	-156	0073103	MS	31-Jul-20	8015B	

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Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Project: ADVANCE ENERGY
Project Number: MSU 551H

Project Manager: ANDREW PARKER

Fax To: NONE

Reported: 04-Aug-20 11:19

B - 207 1' H001974-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					
Inorganic Compounds										
Chloride	208		16.0	mg/kg	4	0073004	GM	31-Jul-20	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	(D)		94.9 %	73.3	-129	0073107	MS	31-Jul-20	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	0073103	MS	31-Jul-20	8015B	
DRO >C10-C28*	31.6		10.0	mg/kg	1	0073103	MS	31-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0073103	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctane			76.6 %	44.3	-144	0073103	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctadecane			78.8 %	42.2	-156	0073103	MS	31-Jul-20	8015B	

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Celey D. Keene



Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Project: ADVANCE ENERGY
Project Number: MSU 551H

Project Manager: ANDREW PARKER

Fax To: NONE

Reported: 04-Aug-20 11:19

W - 201 0-4' H001974-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	1940		16.0	mg/kg	4	0073004	GM	31-Jul-20	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		93.8 %	73.3	-129	0073107	MS	31-Jul-20	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	0073103	MS	31-Jul-20	8015B	
DRO >C10-C28*	359		10.0	mg/kg	1	0073103	MS	31-Jul-20	8015B	
EXT DRO >C28-C36	84.4		10.0	mg/kg	1	0073103	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctane			79.0 %	44.3	-144	0073103	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctadecane			86.1 %	42.2	-156	0073103	MS	31-Jul-20	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Project: ADVANCE ENERGY
Project Number: MSU 551H

Project Manager: ANDREW PARKER

Fax To: NONE

Reported: 04-Aug-20 11:19

W - 202 0-4' H001974-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	192		16.0	mg/kg	4	0073004	GM	31-Jul-20	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		94.6 %	73.3	-129	0073107	MS	31-Jul-20	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	0073104	MS	31-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0073104	MS	31-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0073104	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctane			78.7 %	44.3	-144	0073104	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctadecane			81.9 %	42.2	-156	0073104	MS	31-Jul-20	8015B	

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Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Project: ADVANCE ENERGY
Project Number: MSU 551H

Project Manager: ANDREW PARKER

Fax To: NONE

Reported: 04-Aug-20 11:19

W - 203 0-4' H001974-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	1180		16.0	mg/kg	4	0073004	GM	31-Jul-20	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Surrogate: 4-Bromofluorobenzene (PIL	D)		94.0 %	73.3	-129	0073107	MS	31-Jul-20	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	0073104	MS	31-Jul-20	8015B	
DRO >C10-C28*	53.0		10.0	mg/kg	1	0073104	MS	31-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0073104	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctane			76.5 %	44.3	-144	0073104	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctadecane			73.0 %	42.2	-156	0073104	MS	31-Jul-20	8015B	

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Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Project: ADVANCE ENERGY
Project Number: MSU 551H

Project Manager: ANDREW PARKER

Fax To: NONE

Reported: 04-Aug-20 11:19

W - 204 0-1.5' H001974-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	272		16.0	mg/kg	4	0073004	GM	31-Jul-20	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		93.5 %	73.3	-129	0073107	MS	31-Jul-20	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	0073104	MS	31-Jul-20	8015B	
DRO >C10-C28*	68.1		10.0	mg/kg	1	0073104	MS	31-Jul-20	8015B	
EXT DRO >C28-C36	11.8		10.0	mg/kg	1	0073104	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctane			80.3 %	44.3	-144	0073104	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctadecane			85.1 %	42.2	-156	0073104	MS	31-Jul-20	8015B	

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Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Project: ADVANCE ENERGY
Project Number: MSU 551H

Project Manager: ANDREW PARKER

Fax To: NONE

Reported: 04-Aug-20 11:19

W - 205 0-1' H001974-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	224		16.0	mg/kg	4	0073004	GM	31-Jul-20	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			94.2 %	73.3	-129	0073107	MS	31-Jul-20	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	0073104	MS	31-Jul-20	8015B	
DRO >C10-C28*	146		10.0	mg/kg	1	0073104	MS	31-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0073104	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctane			71.9 %	44.3	-144	0073104	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctadecane			77.9 %	42.2	-156	0073104	MS	31-Jul-20	8015B	

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Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Project: ADVANCE ENERGY
Project Number: MSU 551H

Project Manager: ANDREW PARKER

Fax To: NONE

Reported: 04-Aug-20 11:19

W - 206 1-2' H001974-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	1280		16.0	mg/kg	4	0073004	GM	31-Jul-20	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		95.8 %	73.3	-129	0073107	MS	31-Jul-20	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	0073104	MS	31-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0073104	MS	31-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0073104	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctane			77.9 %	44.3	-144	0073104	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctadecane			82.8 %	42.2	-156	0073104	MS	31-Jul-20	8015B	

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Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Project: ADVANCE ENERGY
Project Number: MSU 551H

Project Manager: ANDREW PARKER

Fax To: NONE

Reported: 04-Aug-20 11:19

W - 210 0-2' H001974-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	592		16.0	mg/kg	4	0073004	GM	31-Jul-20	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		93.9 %	73.3	-129	0073107	MS	31-Jul-20	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	0073104	MS	31-Jul-20	8015B	
DRO >C10-C28*	129		10.0	mg/kg	1	0073104	MS	31-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0073104	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctane			83.9 %	44.3	-144	0073104	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctadecane			90.9 %	42.2	-156	0073104	MS	31-Jul-20	8015B	

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Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Project: ADVANCE ENERGY
Project Number: MSU 551H

Project Manager: ANDREW PARKER

Fax To: NONE

Reported: 04-Aug-20 11:19

W - 211 2-4' H001974-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	1460		16.0	mg/kg	4	0073004	GM	31-Jul-20	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			94.2 %	73.3-	-129	0073107	MS	31-Jul-20	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	0073104	MS	31-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0073104	MS	31-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0073104	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctane			84.2 %	44.3-	-144	0073104	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctadecane			89.2 %	42.2-	-156	0073104	MS	31-Jul-20	8015B	

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Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Project: ADVANCE ENERGY
Project Number: MSU 551H

Project Manager: ANDREW PARKER

Fax To: NONE

Reported: 04-Aug-20 11:19

W - 213 0-2' H001974-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	688		16.0	mg/kg	4	0073110	GM	31-Jul-20	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	0073107	MS	31-Jul-20	8021B	
Surrogate: 4-Bromofluorobenzene (PII	D)		94.0 %	73.3	-129	0073107	MS	31-Jul-20	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	0073104	MS	31-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0073104	MS	31-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0073104	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctane			86.6 %	44.3	-144	0073104	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctadecane			92.2 %	42.2	-156	0073104	MS	31-Jul-20	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Project: ADVANCE ENERGY
Project Number: MSU 551H

Project Manager: ANDREW PARKER

Fax To: NONE

Reported: 04-Aug-20 11:19

B - 208 TRENCH 7' H001974-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	0073110	GM	31-Jul-20	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	0073006	MS	31-Jul-20	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	0073006	MS	31-Jul-20	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	0073006	MS	31-Jul-20	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	0073006	MS	31-Jul-20	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	0073006	MS	31-Jul-20	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		90.8 %	73.3	-129	0073006	MS	31-Jul-20	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	0073104	MS	31-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0073104	MS	31-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0073104	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctane			88.4 %	44.3	-144	0073104	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctadecane			91.6 %	42.2	-156	0073104	MS	31-Jul-20	8015B	

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Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Project: ADVANCE ENERGY
Project Number: MSU 551H

Project Manager: ANDREW PARKER

Fax To: NONE

Reported: 04-Aug-20 11:19

B - 209 2' H001974-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	176		16.0	mg/kg	4	0073110	GM	31-Jul-20	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	0073006	MS	31-Jul-20	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	0073006	MS	31-Jul-20	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	0073006	MS	31-Jul-20	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	0073006	MS	31-Jul-20	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	0073006	MS	31-Jul-20	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		91.4 %	73.3	-129	0073006	MS	31-Jul-20	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	0073104	MS	31-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0073104	MS	31-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0073104	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctane			87.4 %	44.3	-144	0073104	MS	31-Jul-20	8015B	
Surrogate: 1-Chlorooctadecane			91.2 %	42.2	-156	0073104	MS	31-Jul-20	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Project: ADVANCE ENERGY
Project Number: MSU 551H

Project Manager: ANDREW PARKER

Fax To: NONE

Reported: 04-Aug-20 11:19

Inorganic Compounds - Quality Control

Cardinal Laboratories

Regult	Reporting	Unite	Spike Level	Source	%RFC	%REC	RPD	RPD Limit	Notes
Result	Liiiit	Onits	Level	Result	/orche	Limits	KI D	Lillit	110108
			Prepared &	Analyzed:	30-Jul-20				
ND	16.0	mg/kg	·			·		·	·
			Prepared &	: Analyzed:	30-Jul-20				
416	16.0	mg/kg	400		104	80-120		·	·
			Prepared & Analyzed: 30-Jul-20						
432	16.0	mg/kg	400		108	80-120	3.77	20	
			Prepared &	: Analyzed:	31-Jul-20				
ND	16.0	mg/kg							
			Prepared &	: Analyzed:	31-Jul-20				
400	16.0	mg/kg	400		100	80-120			
			Prepared &	: Analyzed:	31-Jul-20				
400	16.0	mg/kg	400		100	80-120	0.00	20	
	416 432 ND 400	Result Limit ND 16.0 416 16.0 432 16.0 ND 16.0 400 16.0	ND	Result Limit Units Level	Prepared & Analyzed: ND	Result Limit Units Level Result %REC	Prepared & Analyzed: 30-Jul-20	Prepared & Analyzed: 30-Jul-20	Prepared & Analyzed: 30-Jul-20

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Celey D. Keene



%REC

Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Project: ADVANCE ENERGY Project Number: MSU 551H

Project Manager: ANDREW PARKER

Spike

Source

Fax To: NONE

Reported: 04-Aug-20 11:19

RPD

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Reporting

/0KEC		KrD	
C Limits	RPD	Limit	Notes
31-Jul-20			
73.3-129			
31-Jul-20			
72.2-131			
71.7-126			
68.9-126			
71.4-125			
73.3-129			
31-Jul-20			
72.2-131	7.47	14.6	
71.7-126	8.48	17.4	
68.9-126	8.48	18.9	
71.4-125	7.65	18.5	
73.3-129			
	73.3-129	73.3-129	73.3-129

Blank (0073107-BLK1)				Prepared & Analy	zed: 31-Jul-20		
Benzene	ND	0.050	mg/kg				
Toluene	ND	0.050	mg/kg				
Ethylbenzene	ND	0.050	mg/kg				
Total Xylenes	ND	0.150	mg/kg				
Total BTEX	ND	0.300	mg/kg				
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500	93.1	73.3-129	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



0/DEC

Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Project: ADVANCE ENERGY
Project Number: MSU 551H

Project Manager: ANDREW PARKER

Fax To: NONE

Reported: 04-Aug-20 11:19

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0073107 - Volatiles										
LCS (0073107-BS1)	Prepared & Analyzed: 31-Jul-20									
Benzene	2.02	0.050	mg/kg	2.00		101	72.2-131			
Toluene	2.02	0.050	mg/kg	2.00		101	71.7-126			
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	68.9-126			
Total Xylenes	5.91	0.150	mg/kg	6.00		98.5	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0480		mg/kg	0.0500		95.9	73.3-129			
LCS Dup (0073107-BSD1)				Prepared &	Analyzed:	31-Jul-20				
Benzene	1.84	0.050	mg/kg	2.00		92.0	72.2-131	9.31	14.6	
Toluene	1.84	0.050	mg/kg	2.00		92.1	71.7-126	9.09	17.4	
Ethylbenzene	1.87	0.050	mg/kg	2.00		93.4	68.9-126	8.86	18.9	
Total Xylenes	5.40	0.150	mg/kg	6.00		90.0	71.4-125	9.06	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0477		mg/kg	0.0500		95.3	73.3-129			

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Celey D. Keine



%REC

Limits

RPD

Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Analyte

Project: ADVANCE ENERGY
Project Number: MSU 551H

Spike

Level

Source

Result

%REC

Reported: 04-Aug-20 11:19

RPD

Limit

Notes

Project Manager: ANDREW PARKER Fax To: NONE

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

Blank (0073103-BLK1)				Prepared & Anal	yzed: 31-Jul-20				
GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	55.8		mg/kg	50.0	112	44.3-144			
Surrogate: 1-Chlorooctadecane	59.8		mg/kg	50.0	120	42.2-156			
LCS (0073103-BS1)				Prepared & Anal	yzed: 31-Jul-20				
GRO C6-C10	195	10.0	mg/kg	200	97.5	78.8-127			
DRO >C10-C28	195	10.0	mg/kg	200	97.5	80-132			
Total TPH C6-C28	390	10.0	mg/kg	400	97.5	81.3-128			
Surrogate: 1-Chlorooctane	55.0		mg/kg	50.0	110	44.3-144			
Surrogate: 1-Chlorooctadecane	58.2		mg/kg	50.0	116	42.2-156			
LCS Dup (0073103-BSD1)				Prepared & Anal	yzed: 31-Jul-20				
GRO C6-C10	211	10.0	mg/kg	200	105	78.8-127	7.70	15.1	
DRO >C10-C28	218	10.0	mg/kg	200	109	80-132	11.3	17.1	
Total TPH C6-C28	429	10.0	mg/kg	400	107	81.3-128	9.53	15	
Surrogate: 1-Chlorooctane	44.8		mg/kg	50.0	89.5	44.3-144			
Surrogate: 1-Chlorooctadecane	44.4		mg/kg	50.0	88.8	42.2-156			

Batch 00/3104 - General Prep - Organics

Blank (0073104-BLK1)		Prepared & Analy	zed: 31-Jul-20					
GRO C6-C10	ND	10.0	mg/kg					
DRO >C10-C28	ND	10.0	mg/kg					
EXT DRO >C28-C36	ND	10.0	mg/kg					
Surrogate: 1-Chlorooctane	56.4		mg/kg	50.0	113	44.3-144		
Surrogate: 1-Chlorooctadecane	61.5		mg/kg	50.0	123	42.2-156		

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Celey D. Keene



%REC

Limits

RPD

Analytical Results For:

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Analyte

Project: ADVANCE ENERGY
Project Number: MSU 551H

Project Manager: ANDREW PARKER

Spike

Level

Source

Result

%REC

Fax To: NONE

Reported: 04-Aug-20 11:19

RPD

Limit

Notes

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

LCS (0073104-BS1)				Prepared & Anal	lyzed: 31-Jul-20				
GRO C6-C10	197	10.0	mg/kg	200	98.4	78.8-127			
DRO >C10-C28	201	10.0	mg/kg	200	101	80-132			
Total TPH C6-C28	398	10.0	mg/kg	400	99.5	81.3-128			
Surrogate: 1-Chlorooctane	56.0		mg/kg	50.0	112	44.3-144			
Surrogate: 1-Chlorooctadecane	61.5		mg/kg	50.0	123	42.2-156			
LCS Dup (0073104-BSD1)				Prepared & Anal	lyzed: 31-Jul-20				
GRO C6-C10	210	10.0	mg/kg	200	105	78.8-127	6.55	15.1	
DRO >C10-C28	217	10.0	mg/kg	200	109	80-132	7.67	17.1	
Total TPH C6-C28	427	10.0	mg/kg	400	107	81.3-128	7.12	15	
Surrogate: 1-Chlorooctane	44.8		mg/kg	50.0	89.5	44.3-144			
Surrogate: 1-Chlorooctadecane	45.6		mg/kg	50.0	91.2	42.2-156			

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Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 26 of 28

Released to Imaging: 7/27/2021 1:32:26 PM



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:	R.T. Hicks Consultants	Itants		BILL TO	70			ANALYSIS REQUEST	
Project Manager:				P.O. #:					
Address: On-	On-File			Company: R.T.	Hicks				
City:		State:	Zip:	Attn: Send to	d to				
Phone #:		Fax #:		Address: ABO Office	Office				
Project #:		Project Owner:		city: andrew @ rthicks	@ rthicks)			
Project Name: /	Advance Evering	20		State: Zip	Zip: Lansalticen	RO			
9	msn.	H		#:		MI	_		
Sampler Name:	Jacob Saenz			Fax #:		O+			
FOR LAB USE ONLY			MATRIX	PRESERV.	SAMPLING	_			
Lab I.D.	Sample I.D.	Ģ	RAB OR (C)OMP ONTAINERS OUNDWATER STEWATER L	IDGE HER: D/BASE: /COOL HER:		HLORIDE PH (GRO+	ENZENE,		
H20190H	RAT R-201	4,25	# C	OT AC ICE OT	DATE TIME		-		
N-	20	4.24	-		_)	-		
ىد	S-203	なび			900				
4	3-204	HSU			1900		-		
5	B-Jes	257			<u> </u>				
6	306-8	131			1300				
7	15-201	0/6/		7					
Ja	でしてい	130-0			110,100	*	\		
10	とったーハ	0-41-7	6	Ę	\$3000	V	<		
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Relinquished By:	Spin2	Date: \$3900	Received By:	na Stale	Phone Result: Fax Result: REMARKS:	E.	☐ Yes ☐ No	Add'l Phone #: Add'l Fax #:	250
Relinquished By:		Date:	Received By:			-	2	Rush	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	(Circle One) - Bus - Other:	17/20	Sample Condition Cool Intact Tyes Tyes	√ ₽	BY:	-			
Sampler - urs	- Bus - Omer.	1760	The state of the s	1					

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476 101 East Marland, Hobbs, NM 88240

Company Name: DT 14:b5	Consultants	BILL TO		ANALYSIS REQUEST	
Andrew	rike!	P.O. #:			
File.		Company: R.T- Hick	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
	State: Zip:	Attn: Send to			
Phone #:	Fax #:	Address: antier ectivitis			
Project #:	Project Owner:	city: consultacen			
ame: Advance		State: Zip:	- M		
on: MSh	17	Phone #:	o t EX		
JAGB 5	12	Fax #:	OR T		
FOR LAB USE ONLY		MATRIX PRESERV. SAMPLING	,		
Lab I.D. Sample I.D.	AB OR (C)OMF ONTAINERS OUNDWATER STEWATER	DGE ER: D/BASE: / COOL	Chloride BH CGRO cnzene		
HOUGH	# CC GRC WAS	OIL SLU OTH ACIE	/		
11 W-204	()	X 7/07/20	Ray X		
506.7 Z	0-157		93000		
306-m El	1-267		10mm		
ort-m ti	0-287	-	10:501		
15 W-211	2-467	7/30/00	Sin		
16 W-213	O-2 AT		97		
たからか	Ant-		087		
1778 8-208 Trench	757		10:15		
1848 B-209	OFT VV	<	lo:39m		
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Relinquished By: Date: Received By: Phone Resi	Date: 10/2/ Received By:	1100	Phone Result: ☐ Yes ☐ No Fax Result: ☐ Yes ☐ No	Add'l Phone #: Add'l Fax #:	
SALOB BALAZ Relinquished By:	2	in Malatel	, E		
	Time:		o o Rush		
Delivered By: (Circle One)	# LIN	Sample Condition CHECKED BY: Cool Intact (Initials)			
Sampler - UPS - Bus - Other:	17.6c #113 =	THO NO NO			



August 04, 2020

ANDREW PARKER

ADVANCE ENERGY PARTNERS

11490 WESTHEIMER ROAD, STE. 950

HOUSTON, TX 77077

RE: MSU 551H

Enclosed are the results of analyses for samples received by the laboratory on 08/03/20 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ADVANCE ENERGY PARTNERS
ANDREW PARKER
11490 WESTHEIMER ROAD, STE. 950
HOUSTON TX, 77077

Fax To: (832) 672-4609

Received: 08/03/2020 Reported: 08/04/2020

Project Name: MSU 551H
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 08/03/2020

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: W - 206 S. (H001991-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2020	ND	1.97	98.4	2.00	2.40	
Toluene*	<0.050	0.050	08/03/2020	ND	1.97	98.7	2.00	2.38	
Ethylbenzene*	<0.050	0.050	08/03/2020	ND	2.01	100	2.00	2.53	
Total Xylenes*	<0.150	0.150	08/03/2020	ND	5.80	96.6	6.00	2.47	
Total BTEX	<0.300	0.300	08/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/04/2020	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2020	ND	197	98.5	200	6.64	
DRO >C10-C28*	<10.0	10.0	08/04/2020	ND	202	101	200	8.14	
EXT DRO >C28-C36	<10.0	10.0	08/04/2020	ND					
Surrogate: 1-Chlorooctane	84.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	85.4	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

ADVANCE ENERGY PARTNERS
ANDREW PARKER
11490 WESTHEIMER ROAD, STE. 950
HOUSTON TX, 77077

Fax To: (832) 672-4609

 Received:
 08/03/2020
 Sampling Date:
 08/03/2020

 Reported:
 08/04/2020
 Sampling Type:
 Soil

Project Name: MSU 551H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: NONE GIVEN

Sample ID: W - 206 W. (H001991-02)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2020	ND	1.97	98.4	2.00	2.40	
Toluene*	<0.050	0.050	08/03/2020	ND	1.97	98.7	2.00	2.38	
Ethylbenzene*	<0.050	0.050	08/03/2020	ND	2.01	100	2.00	2.53	
Total Xylenes*	<0.150	0.150	08/03/2020	ND	5.80	96.6	6.00	2.47	
Total BTEX	<0.300	0.300	08/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/04/2020	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2020	ND	197	98.5	200	6.64	
DRO >C10-C28*	<10.0	10.0	08/03/2020	ND	202	101	200	8.14	
EXT DRO >C28-C36	<10.0	10.0	08/03/2020	ND					
Surrogate: 1-Chlorooctane	77.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	77.6	% 42.2-15	6						

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Analytical Results For:

ADVANCE ENERGY PARTNERS
ANDREW PARKER
11490 WESTHEIMER ROAD, STE. 950
HOUSTON TX, 77077

Fax To: (832) 672-4609

Received: 08/03/2020

Reported: 08/04/2020
Project Name: MSU 551H
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 08/03/2020

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: W - 206 E. (H001991-03)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2020	ND	1.97	98.4	2.00	2.40	
Toluene*	<0.050	0.050	08/03/2020	ND	1.97	98.7	2.00	2.38	
Ethylbenzene*	<0.050	0.050	08/03/2020	ND	2.01	100	2.00	2.53	
Total Xylenes*	<0.150	0.150	08/03/2020	ND	5.80	96.6	6.00	2.47	
Total BTEX	<0.300	0.300	08/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	08/04/2020	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2020	ND	197	98.5	200	6.64	
DRO >C10-C28*	<10.0	10.0	08/03/2020	ND	202	101	200	8.14	
EXT DRO >C28-C36	<10.0	10.0	08/03/2020	ND					
Surrogate: 1-Chlorooctane	76.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	77.2	% 42.2-15	6						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene



101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

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Sompany Name: Advance Er Project Manager: Andrew Pa	Energy	P.O. #: MSU 551 H Company: Advance Energy		ANALYSIS REQUEST
City:	State: Zip:	Attn:		
e 井:	Fax #:	Address:		
	Project Owner:	City:		
Project Name: MSU 551 H		State: Zip:	Ext	
		Phone #:	8	
Androw F	scker	Fax #:	'H	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP, # CONTAINERS GROUNDWATER WASTEWATER SOIL	OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	Chloride BTBY,	
200			1000 X X	
300 C	C (<	10,40	
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Relinquished By: (Malwood Coll)	Date: Received By:	A Land	Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address:	
	Date: Reserved By:	In Cinami	REMARKS: LUSH	
Delivered By: (Circle One) Obs Sampler - UPS - Bus - Other: Cor	Observed Temp. °C 5.7.3 Sample C Coorrected Temp. °C Fres No	CHECKED BY: Itact (Initials) GYes No	Turnaround Time: Standard Rush Thermometer ID #97- #1/3 Correction Factor +0.4-e 7-, 8/3/20	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
FORW-000 R 3.0	† Cardinal cannot accept verbal changes. Please email changes to celev.keene@cardinallabsnm.com	al changes. Please email chan		



September 09, 2020

ANDREW PARKER

ADVANCE ENERGY PARTNERS

11490 WESTHEIMER ROAD, STE. 950

HOUSTON, TX 77077

RE: ADVANCE ENERGY

Enclosed are the results of analyses for samples received by the laboratory on 09/02/20 8:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Total Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ADVANCE ENERGY PARTNERS 11490 WESTHEIMER ROAD, STE. 950 HOUSTON TX, 77077 Project: ADVANCE ENERGY
Project Number: MSU 551H
Project Manager: ANDREW PARKER

Reported: 09-Sep-20 10:51

Fax To: (832) 672-4609

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W - 210 EAST 0-4' W - 210 NORTH 0-4'	H002328-01 H002328-02	Soil Soil	01-Sep-20 12:00 01-Sep-20 13:00	02-Sep-20 08:35 02-Sep-20 08:35
W - 210 SOUTH 0-4'	H002328-03	Soil	01-Sep-20 14:00	02-Sep-20 08:35

09/09/20 - Client changed the sample ID for -03. This is the revised report and will replace the one sent on 09/03/20.

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Analytical Results For:

ADVANCE ENERGY PARTNERS 11490 WESTHEIMER ROAD, STE. 950 HOUSTON TX, 77077 Project: ADVANCE ENERGY
Project Number: MSU 551H

Project Manager: ANDREW PARKER Fax To: (832) 672-4609 Reported: 09-Sep-20 10:51

W - 210 EAST 0-4' H002328-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	272		16.0	mg/kg	4	0090214	AC	02-Sep-20	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	0090202	ms	02-Sep-20	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	0090202	ms	02-Sep-20	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	0090202	ms	02-Sep-20	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	0090202	ms	02-Sep-20	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	0090202	ms	02-Sep-20	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		110 %	73.3	-129	0090202	ms	02-Sep-20	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	0090209	MS	02-Sep-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0090209	MS	02-Sep-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0090209	MS	02-Sep-20	8015B	
Surrogate: 1-Chlorooctane			89.0 %	44.3	-144	0090209	MS	02-Sep-20	8015B	
Surrogate: 1-Chlorooctadecane			91.0 %	42.2	-156	0090209	MS	02-Sep-20	8015B	

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Reported:



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ADVANCE ENERGY PARTNERS 11490 WESTHEIMER ROAD, STE. 950 HOUSTON TX, 77077

Project: ADVANCE ENERGY Project Number: MSU 551H

09-Sep-20 10:51 Project Manager: ANDREW PARKER

Fax To: (832) 672-4609

W - 210 NORTH 0-4' H002328-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	0090214	AC	02-Sep-20	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	0090202	ms	02-Sep-20	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	0090202	ms	02-Sep-20	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	0090202	ms	02-Sep-20	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	0090202	ms	02-Sep-20	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	0090202	ms	02-Sep-20	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			111 %	73.3	-129	0090202	ms	02-Sep-20	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	0090209	MS	02-Sep-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0090209	MS	02-Sep-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0090209	MS	02-Sep-20	8015B	
Surrogate: 1-Chlorooctane			84.9 %	44.3	-144	0090209	MS	02-Sep-20	8015B	
Surrogate: 1-Chlorooctadecane			87.0 %	42.2	-156	0090209	MS	02-Sep-20	8015B	

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Analytical Results For:

ADVANCE ENERGY PARTNERS 11490 WESTHEIMER ROAD, STE. 950 HOUSTON TX, 77077 Project: ADVANCE ENERGY
Project Number: MSU 551H
Project Manager: ANDREW PARKER

Reported: 09-Sep-20 10:51

Fax To: (832) 672-4609

W - 210 SOUTH 0-4' H002328-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	576		16.0	mg/kg	4	0090214	AC	02-Sep-20	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	0090202	ms	02-Sep-20	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	0090202	ms	02-Sep-20	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	0090202	ms	02-Sep-20	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	0090202	ms	02-Sep-20	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	0090202	ms	02-Sep-20	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		110 %	73.3	-129	0090202	ms	02-Sep-20	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	0090209	MS	02-Sep-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0090209	MS	02-Sep-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0090209	MS	02-Sep-20	8015B	
Surrogate: 1-Chlorooctane			81.4 %	44.3	-144	0090209	MS	02-Sep-20	8015B	
Surrogate: 1-Chlorooctadecane			83.1 %	42.2	-156	0090209	MS	02-Sep-20	8015B	

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Analytical Results For:

ADVANCE ENERGY PARTNERS 11490 WESTHEIMER ROAD, STE. 950 HOUSTON TX, 77077 Project: ADVANCE ENERGY
Project Number: MSU 551H
Project Manager: ANDREW PARKER

Reported: 09-Sep-20 10:51

Fax To: (832) 672-4609

Inorganic Compounds - Quality Control

Cardinal Laboratories

Andre	Result	Reporting	Units	Spike	Source Result	%REC	%REC Limits	RPD	RPD Limit	Nister
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0090214 - 1:4 DI Water										
Blank (0090214-BLK1)				Prepared &	Analyzed:	02-Sep-20				
Chloride	ND	16.0	mg/kg							
LCS (0090214-BS1)				Prepared &	Analyzed:	02-Sep-20				
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (0090214-BSD1)				Prepared &	Analyzed:	02-Sep-20				
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	

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Celey D. Keene



Analytical Results For:

ADVANCE ENERGY PARTNERS 11490 WESTHEIMER ROAD, STE. 950 HOUSTON TX, 77077

Project: ADVANCE ENERGY Project Number: MSU 551H Project Manager: ANDREW PARKER

Reported: 09-Sep-20 10:51

Fax To: (832) 672-4609

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0090202 - Volatiles										
Blank (0090202-BLK1)				Prepared &	k Analyzed:	02-Sep-20				
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0556		mg/kg	0.0500		111	73.3-129			
LCS (0090202-BS1)				Prepared &	k Analyzed:	02-Sep-20				
Benzene	1.90	0.050	mg/kg	2.00		94.8	72.2-131			
Toluene	1.92	0.050	mg/kg	2.00		96.0	71.7-126			
Ethylbenzene	1.91	0.050	mg/kg	2.00		95.6	68.9-126			
Total Xylenes	5.87	0.150	mg/kg	6.00		97.9	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0516		mg/kg	0.0500		103	73.3-129			
LCS Dup (0090202-BSD1)				Prepared &	k Analyzed:	02-Sep-20				
Benzene	2.04	0.050	mg/kg	2.00		102	72.2-131	7.17	14.6	
Toluene	2.05	0.050	mg/kg	2.00		102	71.7-126	6.59	17.4	
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	68.9-126	6.32	18.9	
Total Xylenes	6.25	0.150	mg/kg	6.00		104	71.4-125	6.24	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0516		mg/kg	0.0500		103	73.3-129			

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



%REC

Limits

RPD

Analytical Results For:

ADVANCE ENERGY PARTNERS 11490 WESTHEIMER ROAD, STE. 950 HOUSTON TX, 77077

Analyte

Surrogate: 1-Chlorooctadecane

Project: ADVANCE ENERGY Project Number: MSU 551H Project Manager: ANDREW PARKER

Reported: 09-Sep-20 10:51

RPD

Limit

Notes

Fax To: (832) 672-4609

Spike

Level

Source

Result

%REC

86.5

42.2-156

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

43.3

Batch 0090209 - General Prep - Organics										
Blank (0090209-BLK1)				Prepared &	Analyzed: 02	-Sep-20)			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	40.3		mg/kg	50.0		80.6	44.3-144			
Surrogate: I-Chlorooctadecane	40.8		mg/kg	50.0		81.7	42.2-156			
LCS (0090209-BS1)				Prepared &	Analyzed: 02	-Sep-20)			
GRO C6-C10	194	10.0	mg/kg	200		96.8	78.8-127			
DRO >C10-C28	203	10.0	mg/kg	200		101	80-132			
Total TPH C6-C28	397	10.0	mg/kg	400		99.1	81.3-128			
Surrogate: 1-Chlorooctane	45.1		mg/kg	50.0		90.1	44.3-144			
Surrogate: 1-Chlorooctadecane	46.7		mg/kg	50.0		93.4	42.2-156			
LCS Dup (0090209-BSD1)				Prepared &	Analyzed: 02	-Sep-20)			
GRO C6-C10	196	10.0	mg/kg	200		98.0	78.8-127	1.21	15.1	
DRO >C10-C28	203	10.0	mg/kg	200		101	80-132	0.0513	17.1	
Total TPH C6-C28	399	10.0	mg/kg	400		99.7	81.3-128	0.566	15	
Surrogate: 1-Chlorooctane	42.2		mg/kg	50.0		84.4	44.3-144			

mg/kg

50.0

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Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Phone #: Project Manager: Company Name: Sampler Name: Project Location: Project Name: Project #: Address: FOR LAB USE ONLY Lab I.D. **CARDINAL**Laboratories On-File 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 We シーム/Orest Jacob Saenz MSU 55, Advance Energy Partners Andrew Parker Sample I.D. CHERRY Fax #: Project Owner: State: MINO (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE Fax #: State: City: P.O. #: Attn: OTHER: Company: AEP Phone #: Address: Aparker@advance ACID/BASE: ICE / COOL MSU 551

energypartners.com

Send to

BILL TO

ANALYSIS

REQUEST

インの

OTHER:

CHLORIDE

TPH (GRO+DRO+MRO)

BENZENE, BTEX

DATE 120

200 100 1200 TIME

				CHECKED BY: (Initials)	Sample Condition Cool Intact Yes Yes	#//3	c. On	Delivered By: (Circle One) Sampler - UPS - Bus - Other:
		1221	12				Time:	
Change To. 9/9/20	Chai	,	>		d By:	Received By:	Date:	Relinquished By:
SEE Email for Name	SEE Em		REMARKS:	Market	huara c		C 33	7 N 3 US GOO 46
#	□ No Add'I Fax #:	□ Yes	Fax Result:			1	7.00	100000
ne #:	☐ No Add'I Phone #:	∷ □ Yes	Phone Result:	0	d By:	Received By:	Date:	Relinquished By:

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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 23576

CONDITIONS

Operator:	OGRID:
ADVANCE ENERGY PARTNERS HAT MESA, LLC	372417
11490 Westheimer Rd., Ste 950	Action Number:
Houston, TX 77077	23576
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	7/27/2021