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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

## **Release Notification**

## **Responsible Party**

Responsible Party		OGRID	D			
Contact Name			Contact Te	t Telephone		
Contact email			Incident #	(assigned by OCD)		
Contact mail	ing address			1		
			Location	of Release So	ource	
Latitude				Longitude		
			(NAD 83 in de	cimal degrees to 5 decin	nal places)	
Site Name				Site Type		
Date Release	Discovered			API# (if app	olicable)	
Unit Letter	Section	Township	Range	Cour	ntv	
Omit Detter	Section	Township	Runge	Cour	ity	
Surface Owner	r: State	☐ Federal ☐ Tr	ibal Private (I	Vame:		)
			Nature and	d Volume of 1	Release	
Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)  Crude Oil Volume Released (bbls) Volume Recovered (bbls)						
Produced	Water	Volume Release	` '		Volume Recov	` '
Is the concentration of total dissolved solids		ved solids (TDS)	Yes No	` '		
in the produced water >10,000 mg/l?						
Condensate Volume Released (bbls)			Volume Recov			
Natural Gas Volume Released (Mcf)			Volume Recov	vered (Mcf)		
Other (describe) Volume/Weight Released (provide units)		e units)	Volume/Weight Recovered (provide units)			
Cause of Rele	ease					

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			_

n C-141	State of New Mexico	Incident ID	
2	Oil Conservation Division	District RP	
		Facility ID	
		Application ID	
Vas this a major elease as defined by 9.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible part	y consider this a major release?	
Yes No			
f YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?			
Initial Response  The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury			
_			

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
☐ The source of the release has been stopped.
☐ The impacted area has been secured to protect human health and the environment.
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In

addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name:	Title:
Signature:	Date:
email:	Telephone:

**OCD Only** 

Received by:

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Page 3 Oil Conservation Division

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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?	(ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes ☐ No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Yes No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No	
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No	
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No	
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ☐ No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
Characterization Report Checklist: Each of the following items must be included in the report.		
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.  Field data  Data table of soil contaminant concentration data  Depth to water determination  Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release  Boring or excavation logs  Photographs including date and GIS information  Topographic/Aerial maps  Laboratory data including chain of custody		

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

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Incident ID		
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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:	Title:	
Signature: Jenní Usher	Date:	
email:	Telephone:	
OCD Only		
Received by:	Date:	

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Incident ID	
District RP	
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## **Remediation Plan**

Remediation Plan Checklist: Each of the following items must b	a included in the plan	
	e included in the plan.	
Detailed description of proposed remediation technique		
Scaled sitemap with GPS coordinates showing delineation poin  Estimated volume of material to be remediated	ts	
Closure criteria is to Table 1 specifications subject to 19.15.29.	12(C)(A) NMAC	
Proposed schedule for remediation (note if remediation plan tin		
Troposed selecture for remediation (note if remediation plan till	ichnic is more than 30 days OCD approvar is required)	
<u>Deferral Requests Only</u> : Each of the following items must be con	nfirmed as part of any request for deferral of remediation.	
Contamination must be in areas immediately under or around p deconstruction.	roduction equipment where remediation could cause a major facility	
Extents of contamination must be fully delineated.		
Contamination does not cause an imminent risk to human healt	n, the environment, or groundwater.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name:	Title:	
Signature:	Date:	
email:	Telephone:	
OCD Only		
D 11	D	
Received by:	Date:	
Approved	Approval	
Signature:	Date:	

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Application ID	

## Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC		
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)	
☐ Description of remediation activities		
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially neditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.	
Signature:	Date:	
email:	Telephone:	
OCD Only		
Received by:	Date:	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.		
Closure Approved by:	Date:	
Printed Name:	Title:	

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

State of New Mexico Energy Minerals and Natural Resources Department

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

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

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District RP	
Facility ID	
Application ID	

## **Release Notification**

## **Responsible Party**

Responsible Party O		OGRID	GRID			
Contact Name Conta		Contact Te	Telephone			
Contact email In		Incident #	(assigned by OCD	9)		
Contact mail	ing address			<b>-</b>		
			Location	of Release So	ource	
Latitude				Longitude _		
			(NAD 83 in dec	cimal degrees to 5 decin	nal places)	
Site Name				Site Type		
Date Release	Discovered			API# (if app	plicable)	
Unit Letter	Section	Township	Range	Coun	nty	
Surface Owner: State Federal Tribal Private (Name:)  Nature and Volume of Release						
Material(s) Released (Select all that apply and attach calculations or speci  Crude Oil Volume Released (bbls)		calculations or specific		overed (bbls)		
Produced	Water	Volume Release	d (bbls)		Volume Recovered (bbls)	
Is the concentration of total dissolved solids (TDS)		ved solids (TDS)	Yes No			
in the produced water >10,000 mg/l?		/1?	W.L. D. 1411)			
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 Rele	ease					

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Page	0	oj	1	04	

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Was this a major	If YES, for what reason(s) does the respon	sible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?		
☐ Yes ☐ No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
	Initial Re	esponse
The responsible		y unless they could create a safety hazard that would result in injury
The responsible p	yariy masi anaeriake ine jouowing actions immedialei	y amess mey coma creme a sajety nazara mai woma resun in injuty
☐ The source of the rele	ease has been stopped.	
☐ The impacted area ha	as been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain v	vhy:
		emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred
		lease attach all information needed for closure evaluation.
		pest of my knowledge and understand that pursuant to OCD rules and
public health or the environm	ment. The acceptance of a C-141 report by the O	fications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have
		at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name:		Title:
Signature: <u>Jenní Us</u> ł	her	Date:
email:		Telephone:
OCD Only		
-		
Received by:		Date:

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Incident ID		
District RP		
Facility ID		
Application ID		

## **Site Assessment/Characterization**

 $This information \ must be provided \ to \ the \ appropriate \ district \ of fice \ no \ later \ than \ 90 \ days \ after \ the \ release \ discovery \ date.$ 

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes ☐ No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No	
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No	
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No	
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ☐ No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
Characterization Report Checklist: Each of the following items must be included in the report.		
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.  Field data  Data table of soil contaminant concentration data  Depth to water determination  Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release  Boring or excavation logs  Photographs including date and GIS information  Topographic/Aerial maps  Laboratory data including chain of custody		

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

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

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Incident ID	
District RP	
Facility ID	
Application ID	

## **Remediation Plan**

Remediation Plan Checklist: Each of the following items must b	e included in the plan
Detailed description of proposed remediation technique  Scaled sitemap with GPS coordinates showing delineation poin  Estimated volume of material to be remediated  Closure criteria is to Table 1 specifications subject to 19.15.29.  Proposed schedule for remediation (note if remediation plan tin	ts 12(C)(4) NMAC
<u>Deferral Requests Only</u> : Each of the following items must be con	nfirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around p deconstruction.	roduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human healt	h, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name:	Title:
Signature: <i>Jennú Usher</i>	Date:
email:	Telephone:
agn a t	
OCD Only	
Received by:	Date:
☐ Approved ☐ Approved with Attached Conditions of	Approval
Signature:	Date:

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Application ID	

## Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC						
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office						
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)						
☐ Description of remediation activities							
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rer human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification to the O	n release notifications and perform corrective actions for releases which a C-141 report by the OCD does not relieve the operator of liability nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially neditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.						
Signature:	Date:						
email:	Telephone:						
OCD Only							
OCD Only  Received by:	Date:						
Received by:  Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface of the contamination of the	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible						
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, numan health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.  Printed Name:  Title:  Date:  Telephone:  Telephone:  Telephone:							

Received by OCD: 5/27/2022 1:46:26 PM Form C-141 State of New Mexico Page 5 Oil Conservation Division

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Facility ID	
Application ID	

## **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be	pe included in the plan.
<ul> <li>□ Detailed description of proposed remediation technique</li> <li>□ Scaled sitemap with GPS coordinates showing delineation poin</li> <li>□ Estimated volume of material to be remediated</li> <li>□ Closure criteria is to Table 1 specifications subject to 19.15.29</li> <li>□ Proposed schedule for remediation (note if remediation plan ting)</li> </ul>	12(C)(4) NMAC
<u>Deferral Requests Only</u> : Each of the following items must be co	nfirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around p deconstruction.	production equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human healt	h, the environment, or groundwater.
rules and regulations all operators are required to report and/or file	acceptance of a C-141 report does not relieve the operator of
Printed Name:	Title:
Signature:	
email:	Telephone:
OCD Only	
Received by:	Date:
☐ Approved ☐ Approved with Attached Conditions of	Approval Denied Deferral Approved
Signature: Robert Hamlet	Date:

	SITE INFORMATION												
	Report Type: Work Plan												
General Site Information:													
te: Dorstate SWD													
Company:	Permian W	Permian Water Solutions											
Section, Township and Range	Unit H	Unit H   Sec. 27   T 25S   R 28E											
Lease Number:	API No. 30-015-23728												
County: Eddy													
GPS:		32.102684			-104.0	68565							
Surface Owner:	State												
Directions:		miles, turn east o				nty, travel north on HWY o location on north side							
Release Data:	2RP-4364												
Date Released:	8/23/2017												
Type Release:	Produced V	Vater											
Source of Contamination:	Sump Over	rflow											
Fluid Released:	25 bbls												
Fluids Recovered:	0 bbls												

Official Commu	Official Communication:											
Name:	James Corbitt	Clair Gonzales										
Company:	Permian Water Solutions	Tetra Tech										
Address:	415 W. Wall St.	901 West Wall Street										
	Suite 320	Suite 100										
City:	Midland, TX 79701	Midland, Texas										
Phone number:	(432) 305-4124	(432) 687-8110										
Fax:												
Email:	james@permianws.com	Clair.Gonzales@tetratech.com										

Site Characterization	
Depth to Groundwater:	Less than 50'
Karst Potential:	Medium

Recommended I	Recommended Remedial Action Levels (RRALs)											
Benzene	Total BTEX	TPH (GRO+DRO+MRO)	Chlorides									
10 mg/kg	50 mg/kg	100 mg/kg	600 mg/kg									



November 12, 2019

New Mexico State Land Office 310 Old Santa Fe Trail P.O. Box 1148 Santa Fe, New Mexico 87504

Re: Site Characterization Report for the Permian Water Solutions, LLC., Dorstate SWD, Unit H, Section 27, Township 25 South, Range 28 East, Eddy County, New Mexico.

Tetra Tech, Inc. (Tetra Tech) was contacted by Permian Water Solutions, LLC. (Permian Water Solutions) to assess the impacted areas at the Dorstate SWD, Unit H, Section 27, Township 25 South, Range 28 East, Eddy County, New Mexico. The site coordinates are 32.102684°, -104.068565°. The site location is shown on Figures 1 and 2.

#### Background

According to the State of New Mexico C-141 Initial Report, submitted by Cambrian Management, LTD., the release was discovered on August 23, 2017, and released approximately 25 barrels of produced water due to overflowing sumps. None of the fluids were recovered. The initial C-141 Forms are included in Appendix A.

Basin Environmental Service Technologies (Basin Environmental) submitted a Corrective Action Plan dated August 28, 2018, which detailed sampling activities performed at the site. A copy of the Corrective Action Plan, as well as the data obtained is included in Appendix D.

#### **Site Characterization**

A site characterization was performed for the site and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. The site is located in a medium karst potential area. The nearest well is listed on the New Mexico Office of the State Engineer's website in Section 26, approximately 0.70 miles east-northeast of the site and has a reported depth to groundwater of 40' below ground surface. According to the Chevron Texaco Groundwater Trend map, the average depth to groundwater in this area is less than 50' below surface. The groundwater data is shown in Appendix B.

#### Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases,

etra Tech

901 West Wall St, Ste 100, Midland, TX 79701

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updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. A site characterization was performed for the site and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. The proposed RRAL for benzene was determined to be 10 milligrams per kilogram (mg/kg) and 50 mg/kg for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the site characterization, the proposed RRAL for TPH is 100 mg/kg (GRO + DRO + MRO). Additionally, based on the site characterization, the proposed RRAL for chlorides is 600 mg/kg.

#### **Soil Assessment and Analytical Results**

#### Initial Assessment

Based on the previous sampling data, Tetra Tech personnel were onsite between May 14<sup>th</sup> and May 17<sup>th</sup>, 2019, in order to vertically define the impacts. A total of twenty (20) sample points (SP-1 through SP-4 and SP-6 through SP-21) were installed using a truck mounted air rotary rig to total depths ranging from 9'-10' and 59'-60' below surface. A sample point (SP-5) was originally planned to be installed in the area nearest to the wellhead, however due to numerous underground lines in the area, this sample point could not be safely installed. Additionally, one background bore hole was installed to a total depth of 39'-40' below surface to evaluate the native soils. Selected soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. The drilling logs for the sample points are included in Appendix C. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The results of the sampling are summarized in Table 1. The sample locations are shown on Figure 3.

Referring to Table 1, none of the samples analyzed showed benzene or total BTEX concentrations above the RRALs. Additionally, sample points SP-1, SP-2, SP-6, SP-7, SP-8, SP-9, SP-17, SP-18, SP-19, SP-20, and SP-21 did not show any TPH concentrations above the RRALs. However, sample points SP-3, SP-4, SP-10, SP-11, SP-12, SP-13, SP-14, and SP-16 showed elevated TPH concentrations in the soils which declined with depth to below the 100 mg/kg threshold at depths ranging from 2'-3' and 34'-35' below surface.

Sample points SP-1, SP-3, SP-6, SP-7, SP-14, SP-15, SP-16, SP-17, SP-18, SP-19, and SP-20 showed chloride concentrations above the 600 mg/kg threshold. However, the chloride concentrations declined with depth and were vertically defined at depths ranging from 6'-7' and 39'-30' below surface. However, sample points SP-2, SP-4, SP-8, SP-9, SP-10, SP-11, SP-12, SP-13, and SP-21 were not vertically delineated for chlorides and showed bottom hole concentrations ranging from 1,390 mg/kg to 6,960 mg/kg.

The background sample point, BG-1, showed a chloride high concentration of 672 mg/kg at 4'-5'.



#### Additional Assessment

As requested by NMSLO, Tetra Tech personnel returned to the site between October 23<sup>rd</sup> and October 25<sup>th</sup>, 2019 in order to horizontally define the release area as well as to install boreholes inside the bermed facility. A total of twenty-two (22) horizontal samples (H-1 through H-22) were installed around the perimeter of the release to total depths ranging from 0-6" and 2' below surface. Three boreholes (BH-22, BH-23, and BH-24) were installed using a truck mounted air rotary drilling rig to total depths of 29'-30' below surface inside the bermed facility. Additional sample points could not be installed due to the steep incline of the berm and safety concerns for onsite staff. All collected samples were submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The results of the sampling are summarized in Table 1. The sample locations are shown on Figure 3.

#### Bermed Facility

Referring to Table 1, none of the samples collected showed benzene or total BTEX concentrations above the RRAL's. However, the areas of BH-22, BH-23, and BH-24 showed elevated TPH concentrations to the soils. The area of BH-22 showed a TPH high concentration of 15,800 mg/kg at 0-1' which steadily declined with depth to 87.9 mg/kg at 19'-20' below surface. The areas of BH-23 and BH-24 showed TPH high concentrations of 2,680 mg/kg and 8,230 mg/kg, respectively at 0-1', which then declined with depth to <50.0 mg/kg (6'-7') and 94.5 mg/kg (9-10'), respectively.

Additionally, the areas of BH-22, BH-23, and BH-24 showed minimal chloride concentrations in the surficial soils, however the chloride concentrations increased with depth and showed bottom hole concentrations of 1,160 mg/kg, 2,640 mg/kg, and 2,470 mg/kg, respectively.

#### Horizontal Sampling

Referring to Table 1, none of the samples collected showed benzene or total BTEX concentrations above the RRALs. However, the areas of H-2 and H-12 showed TPH concentrations above the RRAL at 0-1' and 1'-2' with concentrations of 169 mg/kg and 141 mg/kg, respectively. Based on this data, Tetra Tech personnel returned to the site and installed additional horizontal sample points (H-2 (1) and H-12 (1)) in order to horizontally define the release. The samples collected at H-2 (1) and H-12(1) did not show any benzene, total BTEX, TPH, or chloride concentrations above the RRALs. None of the remaining horizontal sample points showed any TPH concentrations above the RRALs. Additionally, all of the samples collected showed chloride concentrations below the background concentration of 672 mg/kg; with the exception of H-8 at 1-2' with a concentration of 855 mg/kg and H-19 at 1-2' with a concentration of 847 mg/kg.

#### **Work Plan**

Based on the laboratory data, Permian Water Solutions proposes to excavate the areas as shown on Figure 4 and highlighted (green) on Table 1. The areas of sample points SP-1, SP-2, SP-4, SP-7 through SP-14 and SP-19 through SP-21 will be excavated to approximately 4.0' below surface. The areas of SP-3, SP-15, SP-17, and SP-24 will be excavated to approximately 6-7' below surface, the areas of SP-12 and BH-22 will be excavated to approximately 15' below surface, and the areas of SP-6, H-2, and SP-16 will be excavated to approximately 1'-2' below



surface. Additionally, the areas of SP-1, SP-2, SP-4, SP-6, SP-8 through SP-14, SP-15, SP-16, and SP-21 through SP-24 will be capped with a 20-mil liner at 4.0' below surface in order to prevent further vertical migration of the deeper impact.

Once excavated, composite bottom hole and sidewall confirmation samples will be collected every 200 square feet, to be representative of the area and to confirm proper removal of the impacted soils. The areas will then be backfilled with clean material to surface grade. Permian Water Solutions estimates approximately 36,600 cubic yards will be excavated, and the remediation to be implemented 90 days after the work plan is approved by both the NMSLO and NMOCD and all remediation access permits are obtained.

The proposed excavation depths may not be reached due to wall cave ins and safety concerns for onsite personnel. In addition, impacted soil around oil and gas equipment, structures or lines may not be feasible or practicable to be removed due to safely concerns for onsite personnel. As such, Permian Water Solutions will excavate the impacted soils to the maximum extent practicable.

### Monitor Wells

In addition to the proposed soil remediation activities, Permian Water Solutions proposes to install three monitor wells on the pad area in order to evaluate the groundwater conditions in the area. Tetra Tech will supervise the installation of the monitor wells to a total depth of approximately 60' below surface using an air rotary rig. The monitor well will be constructed of 2-inch diameter, screw threaded, schedule 40 PVC casing and 0.020-inch factory slotted screen. The well screens, approximately twenty (20) feet in length, will be installed with approximately 15.0' of screen into the groundwater and 5.0' above the groundwater. The well screens will be filter packed with graded (20-40) silica sand, which will be placed in the annular space between the borehole wall and screen to a depth of approximately two (2) feet above the screen.

Once completed, the monitor wells will be properly developed, and all of the fluids will be contained in drums for proper disposal. Additionally, the wells will be surveyed. At the time of sampling, the well caps will be opened and water level measurements will be collected from the top of the casing. The depth to water measurements will be recorded to the nearest 0.01 foot. Approximately three (3) casing volumes of water will be purged from each well using a dedicated bailer and disposable line. All water generated for the purging will be contained in drums for proper disposal. The proposed locations of the monitor wells are shown on Figure 5.

The groundwater samples will be placed into labeled and preserved containers provided by the laboratory. They will then be analyzed for chlorides by EPA method 300.0, TPH by method 8015 modified, and BTEX by EPA Method 8021B. Based on the results of the initial sampling event, a groundwater monitoring plan will be submitted to the NMOCD and NMSLO for approval.



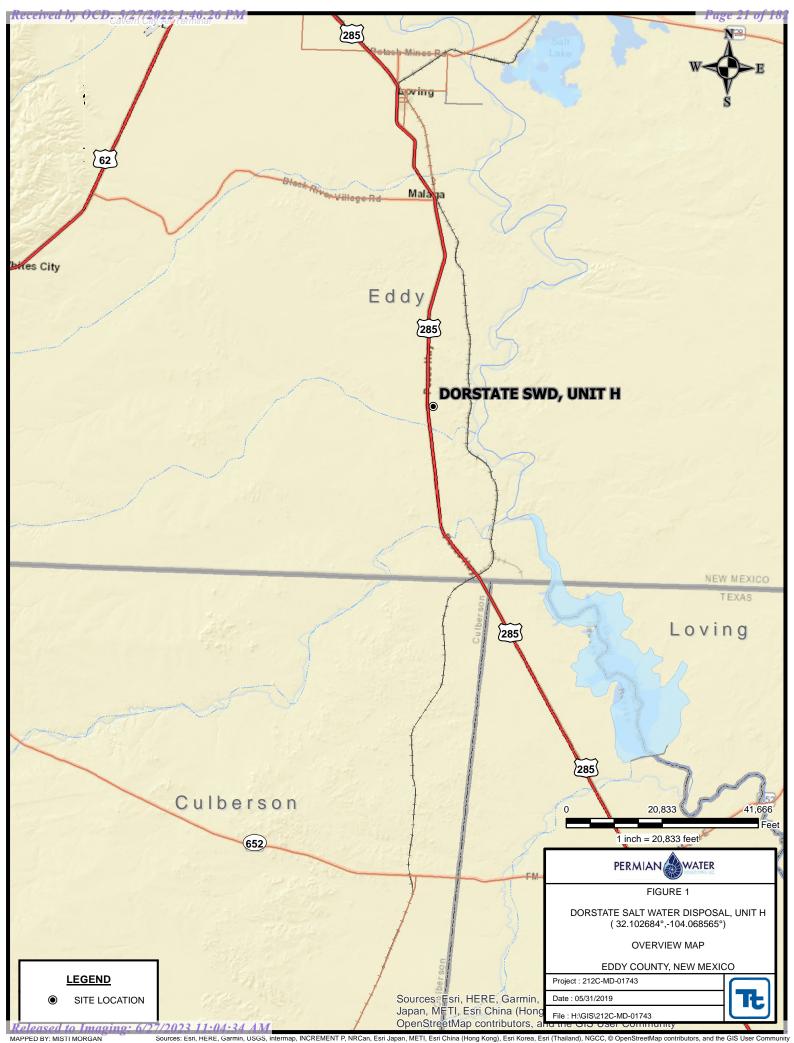
#### Conclusion

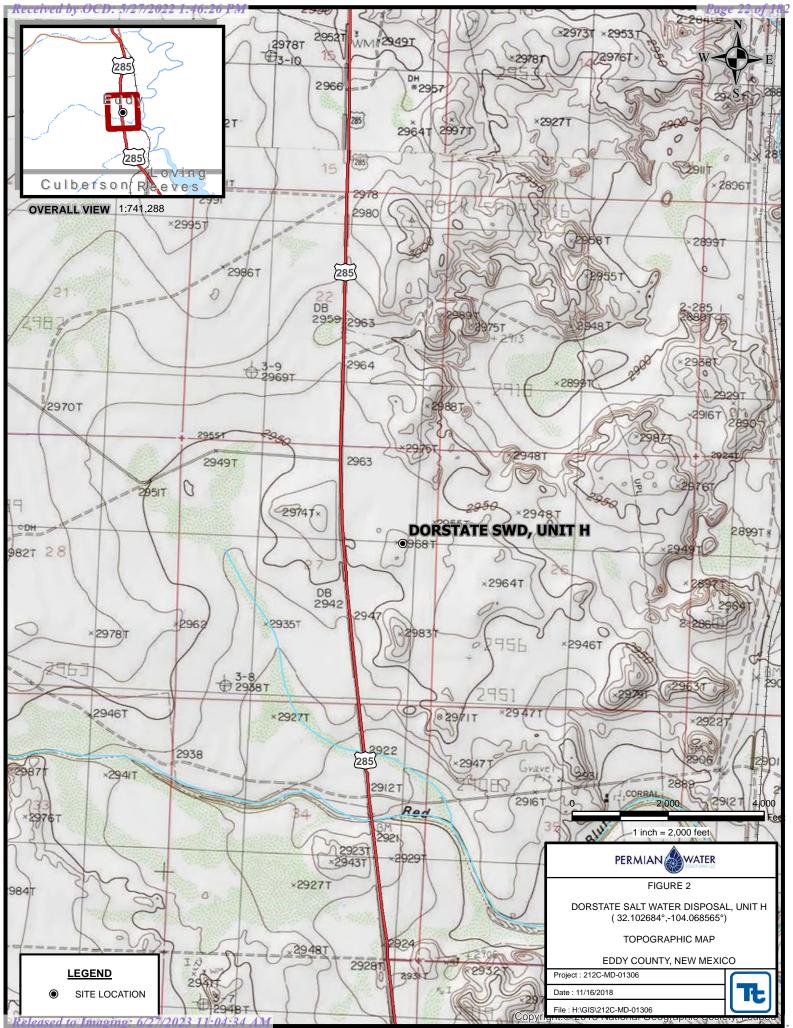
Once the soil remediation activities are completed, a soils closure report and a groundwater monitoring report will be prepared for NMOCD and NMSLO approval. If you have any questions or comments concerning the assessment or remediation activities for this site, please call at (432) 682-4559.

Respectfully submitted, TETRA TECH

Clair Gonzales, P.G., Project Manager

Figures









Approximate Scale in Feet

PROPOSED MONITORING WELL LOCATION MAP DORSTATE SWD

Property Located at coordinates 32.102684°,-104.068565° EDDY COUNTY, NEW MEXICO





FIGURE 5

## **Tables**

Table 1
Permian Water Solutions
Dorstate SWD
Eddy County, New Mexico

		Sample	BEB	Soil	Status		ТРН	(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Sample Date	Depth (ft)	Sample Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SP-1	5/4/2019	0-1	-	Х		<10.0	<10.0	<10.0	<10.0	< 0.050	< 0.050	<0.050	<0.150	< 0.300	5,360
		2-3	-	Х		<10.0	<10.0	<10.0	<10.0	< 0.050	< 0.050	<0.050	<0.150	< 0.300	4,640
		4-5	-	Х		-	-	-	-	-		-	-	-	1,920
		6-7	-	Х		-	-	-	-	-	-	-	-	-	1,200
		9-10	-	Х		-	-	-	-	-		-	-	-	1,140
		14-15	-	Х		-	-	-	-	-		-	-	-	672
		19-20	-	Х		-	-	-	-	-		-	-	-	480
		24-25	-	Х		-	-	-	-	-		-	-	-	400
		29-30	-	Х		-	-	-	-	-		-	-	-	352
	и	34-35	-	Х		-	-	-	-	-	-	-	-	-	304
SP-2	5/14/2019	0-1	-	Х		<10.0	14.8	<10.0	14.8	<0.050	<0.050	<0.050	<0.150	<0.300	7,520
		2-3	-	Х		<10.0	51.5	15.6	67.1	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	4,720
		4-5	-	Х		-	-	-	-	-	-	-	-	-	2,160
		6-7	-	Х		-	-	-	-	-	-	-	-	-	624
		9-10	-	Х		-	-	-	-	-	-	-	-	-	1,020
		14-15	-	Х		-	-	-	-	-	-	-	-	-	2,680
		19-20	-	Х		-	-	-	-	-		-	-	-	3,360
		24-25	-	Х		-	-	-	-	-		-	-	-	3,000
		29-30	-	Х		-	-	-	-	-		-	-	-	3,800
		34-35	-	Х		-	-	-	-	-	-	-	-	-	1,630
		39-40	-	Х		-	-	-	-	-		-	-	-	2,240
		44-45	-	Х		-	-	-	-	-		-	-	-	2,400
		49-50	-	Х		-	-	-	-	-		-	-	-	1,620
		54-55	-	Х		-	-	-	-	-	-	-	-	-	1,010
	"	59-60	-	Х		-	-	-	-	-	-	-	-	-	1,390
SP-3	5/14/2019	0-1	-	Х		30.9	1,940	358	2,329	<0.050	<0.050	<0.050	<0.150	<0.300	3,360
		2-3	-	Х		669	9,200	1,120	10,989	<0.050	<0.050	<0.050	<0.150	<0.300	1,860
		4-5	-	Х		115	2,470	264.0	2,849	-		-	-	-	1,490
		6-7	-	Х		<10.0	703	34.2	737	-		-	-	-	1,120
		9-10	-	Х		<10.0	99.8	<10.0	99.8	-	-	-	-	-	624
		14-15	-	Х		<10.0	35.7	<10.0	35.7	-		-	-	-	480
		14-15	-	X		<10.0	35.7	<10.0	35.7	-	•	-	-	-	480

Table 1
Permian Water Solutions
Dorstate SWD
Eddy County, New Mexico

		Sample	BEB	Soil	Status		ТРН	(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Sample Date	Depth (ft)	Sample Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SP-4	5/14/2019	0-1	-	Х		<10.0	647	397	1,044	< 0.050	<0.050	< 0.050	<0.150	<0.300	11,300
	"	2-3	-	Х		<10.0	80.1	50.0	130	< 0.050	<0.050	<0.050	<0.150	<0.300	5,440
	"	4-5	-	Х		<10.0	<10.0	<10.0	<10.0	-	-	-		-	5,280
	"	6-7	-	Х		<10.0	23.6	<10.0	23.6	-	-	-	-	-	3,680
	"	9-10	-	Х		<10.0	<10.0	<10.0	<10.0	-	-	-	-	-	1,810
	"	14-15	-	Х		<10.0	<10.0	<10.0	<10.0	-	-	-	-	-	1,150
	"	19-20	-	Х		-	-	-	-	-	-	-	-	-	1,420
	"	24-25	-	Х		-	-		-	-	-	-		-	1,760
	"	29-30	-	Х		-	-	-	-	-	-	-	-	-	2,080
	"	34-35	-	Х		-	-	-	-	-	-	-	-	-	736
	"	39-40	-	Х		-	-		-	-	-	-		-	1,120
	"	44-45	-	Х		-	-		-	-	-	-		-	544
	"	49-50	-	Х		-	-	-	-	-	-	-	-	-	1,630
SP-6	5/15/2019	0-1	-	Х		<10.0	<10.0	<10.0	<10.0	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	1,380
	"	2-3	-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	560
	"	4-5	-	Х		-	-		-	-	-	-	-	-	288
		6-7	-	Х		-	-	-	-	-	-	-	-	-	272
	"	9-10	-	Х		-	-	-	-	-	-	-	-	-	1,470
	"	14-15	-	Х		-	-	-	-	-	-	-	-	-	1,330
	"	19-20	-	Х		-	-	-	-	-	-	-	-	-	352
	"	24-25	-	Х		-	-	-	-	-	-	-	-	-	416
	"	29-30	-	Х		-	-		-	-	-	-		-	688
	"	34-35	-	Х		-	-	-	-	-	-	-	-	-	496
	"	39-40	-	Х		-	-	-	-	-	-	-	-	-	208
	"	44-45	-	Х		-	-		-	-	-	-	•	-	112
SP-7	5/15/2019	0-1	-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	< 0.050	<0.050	<0.150	<0.300	5,920
	"	2-3	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,680
		4-5	-	X		-	-	-	-	-	-	-	-	-	1,840
		6-7	-	Х		-	-	-	-	-	-	-	-	-	960
	"	9-10	-	Х		-	-		-	-	-	-	-	-	976
		14-15	-	Х		-	-	-	-	-	-	-	-	-	672
		19-20	-	Х		-	-	-	-	-	-	-	-	-	528
		24-25	-	Х		-	-	-	-	-	-	-	-	-	352
	"	29-30	-	Х		-	-	-	-	-	-	-	-	-	512
	1		1				1		1		1			1	

Table 1
Permian Water Solutions
Dorstate SWD
Eddy County, New Mexico

		Sample	BEB	Soil 9	Status		TDU	(mg/kg)		D	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Sample Date	Depth (ft)	Sample Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	Benzene (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SP-8	5/15/2019	0-1	-	Х	Kemerea	<10.0	<10.0	<10.0	<10.0	< 0.050	< 0.050	< 0.050	<0.150	<0.300	3,040
		2-3	-	Х		<10.0	<10.0	<10.0	<10.0	< 0.050	<0.050	<0.050	<0.150	<0.300	1,280
		4-5	-	Х		-	-	-	-	-	-	-	-	-	1,650
		6-7	-	Х		-	-	-	-	-	-	-	-	-	864
		9-10	-	Х					-		-	-		-	1,880
		14-15	-	Х		-	-	-	-	-	-	-	-	-	1,020
		19-20	-	Х		-	-	-	-	-	-	-	-	-	3,160
	"	24-25	-	Х		-	-	-	-	•	-	-	-	-	3,040
	"	29-30	-	Χ					-		-	-		-	4,480
		34-35	-	Χ		-	-	-	-		-	-	-	-	3,720
		39-40	-	Χ		-	-	-	-		-	-	-	-	5,360
		44-45	-	Χ		-	-	-	-		-	-	-	-	4,560
	"	49-50	-	Х		-	-	-	-	-	-	-	-	-	5,840
SP-9	5/15/2019	0-1	-	Х		<10.0	59.2	19.8	79.0	< 0.050	<0.050	< 0.050	<0.150	<0.300	7,600
	"	2-3	-	Х		<10.0	<10.0	<10.0	<10.0	< 0.050	< 0.050	< 0.050	<0.150	<0.300	3,280
	"	4-5	-	Х		-	-	-	-	-	-	-	-	-	2,680
		6-7	-	Х		-	-	-	-	-	-	-	-	-	896
		9-10	-	Х		-	-	-	-	-	-	-	-	-	1,220
		14-15	-	Х		-	-	-	-	-	-	-	-	-	1,420
	"	19-20	-	Х		1			-		-	-		-	2,600
		24-25	-	Χ		-	-	-	-		-	-	-	-	3,440
		29-30	-	Χ		-	-	-	-		-	-	-	-	3,040
		34-35	-	Х		-	-	-	-	-	-	-	-	-	4,120
	"	39-40	-	Х		-	-	-	-	-	-	-	-	-	3,520
SP-10	5/17/2019	0-1	-	Х		<10.0	1,320	1,790	3,110	<0.050	<0.050	< 0.050	<0.150	< 0.300	4,000
		2-3	-	Х		<10.0	26.2	19.3	45.5	< 0.050	<0.050	< 0.050	<0.150	<0.300	3,120
		4-5	-	Х		-			-		-	-		-	4,160
		6-7	-	Х		-	-	-	-	-	-	-	-	-	1,760
		9-10	-	Х		-	-	-	-		-	-	-	-	2,800
	"	14-15	-	Х		-	-	-	-		-	-	-	-	3,600
	"	19-20	-	Х		-	-	-	-		-	-	-	-	2,920
	"	24-25	-	Х		-		-	-		-	-		-	3,080
	"	29-30	-	Χ		-			-		-	-		-	4,240
		34-35	-	Х		-	-	-	-	-	-	-	-	-	4,640
		39-40	-	Х		-	-	-	-	-	-	-	-	-	4,880

Table 1
Permian Water Solutions
Dorstate SWD
Eddy County, New Mexico

		Sample	BEB	Soil	Status		TPH	(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Sample Date	Depth (ft)	Sample Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SP-11	5/17/2019	0-1	-	Х		<10.0	120	44.9	165	< 0.050	<0.050	< 0.050	<0.150	<0.300	1,760
		2-3	-	Х		<10.0	<10.0	<10.0	<10.0	< 0.050	<0.050	< 0.050	<0.150	<0.300	400
		4-5	-	Х		-			-	-	-	-		-	1,070
		6-7	-	Х		-	-	-	-	-	-	-	-	-	1,700
		9-10	-	Х		-	-	-	-	-	-	-	-	-	3,600
		14-15	-	Х		-	-	-	-	-	-	-	-	-	6,000
		19-20	-	Х		-	-	-	-	-	-	-	-	-	7,360
		24-25	-	Х		1			-	-	-	-		-	5,760
		29-30	-	Х		-	-	-	-	-	-	-	-	-	6,800
		34-35	-	Х		-	-	-	-	-	-	-	-	-	5,730
		39-40	-	Х		-	-	-	-	-	-	-	-	-	5,730
		44-45	-	Х		-	-	-	-	-	-	-	-	-	6,960
SP-12	5/17/2019	0-1	-	Х		<10.0	417	124	541	< 0.050	<0.050	< 0.050	<0.150	< 0.300	4,960
		2-3	-	Х		240	6,620	1,960	8,820	< 0.050	0.229	1.29	0.326	1.85	3,320
		4-5	-	Х		2,360	18,500	2,730	23,590	-	-	-	-	-	8,800
		6-7	-	Х		112	2,400	479	2,991	-	-	-	-	-	2,520
		9-10	-	Х		147	2,940	251	3,338	-	-	-	-	-	3,840
		14-15	-	Х		446	5,640	1,170	7,256	-	-	-	-	-	5,520
		19-20	-	Х		<10.0	1,250	212	1,462	<0.050	<0.050	< 0.050	0.212	<0.300	6,320
		24-25	-	Х		<10.0	262	<10.0	262	<0.050	<0.050	< 0.050	<0.150	<0.300	7,520
		29-30	-	Х		<10.0	180	<10.0	180	< 0.050	< 0.050	< 0.050	<0.150	<0.300	7,200
		34-35	-	Х		<10.0	293	<10.0	293	< 0.050	< 0.050	< 0.050	<0.150	<0.300	6,000
		39-40	-	Х		<10.0	54.0	<10.0	54.0	< 0.050	< 0.050	< 0.050	<0.150	<0.300	6,080
	"	44-45	-	Х		<10.0	81.1	<10.0	81.1	<0.050	<0.050	<0.050	<0.150	<0.300	6,480
SP-13	5/17/2019	0-1	-	Х		<10.0	2,070	1,050	3,120	<0.050	<0.050	<0.050	<0.150	<0.300	3,200
		2-3	-	Х		<10.0	129	35.5	165	<0.050	<0.050	< 0.050	<0.150	<0.300	3,440
		4-5	-	Х		<10.0	<10.0	<10.0	<10.0	-	-	-	-	-	1,380
		6-7	-	Х		<10.0	<10.0	<10.0	<10.0	-	-	-	-	-	3,440
		9-10	-	Х		<10.0	<10.0	<10.0	<10.0	-	-	-	-	-	3,840
		14-15	-	Х		<10.0	<10.0	<10.0	<10.0	-	-	-		-	6,560
		19-20	-	Х		-	-	-	-	-	-	-	-	-	7,200
		24-25	-	Х		-	-	-	-	-	-	-	-	-	4,800
		29-30	-	Х		1	•		-	-	-	-	•	-	1,420
		34-35	-	Х		-	-	-	-	-	-	-	-	-	4,320
		39-40	-	Х		-	-	-	-	-	-	-	-	-	4,480

Table 1
Permian Water Solutions
Dorstate SWD
Eddy County, New Mexico

Sample ID	Sample Date	Sample	BEB Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
·	Sample Date	Depth (ft)		In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SP-14	5/15/2019	0-1	-	Χ		<10.0	87.9	39.1	127	<0.050	<0.050	<0.050	<0.150	<0.300	8,000
		2-3	-	Х		<10.0	<10.0	<10.0	<10.0	< 0.050	<0.050	< 0.050	< 0.150	< 0.300	4,600
		4-5	-	Х		-	-	-	-	-	-	-	-	-	3,960
		6-7	-	Х		1	-		-	-	-	-	-	-	1,440
		9-10	-	Х		-	-	-	-	-	-	-	-	-	672
		14-15	-	Х		-	-	-	-	-	-	-	-	-	1,500
		19-20	-	Х		-	-	-	-	-	-	-	-	-	1,540
		24-25	-	Х		-	-	-	-	-	-	-	-	-	1,020
		29-30	-	Х		-	-	-	-	-	-	-	-	-	192
SP-15	5/15/2019	0-1	-	Х		<10.0	545	203	748	<0.050	<0.050	<0.050	<0.150	< 0.300	9,600
		2-3	-	Х		<10.0	31.5	21.2	52.7	< 0.050	< 0.050	<0.050	< 0.150	< 0.300	2,960
		4-5	-	Х		-	-	-	-	-	-	-	-	-	8,400
		6-7	-	Х		-	-	-	-	-	-	-	-	-	10,300
		9-10	-	Х			-		-	-	-	-	-	-	3,440
		14-15	-	Х		-	-	-	-	-	-	-	-	-	464
		19-20	-	Х		-	-	-	-	-	-	-	-	-	720
		24-25	-	Х			-		-	-	-	-		-	352
		29-30	-	Х		٠	-	•	-	-	-	-	-	-	192
SP-16	5/15/2019	0-1	-	Х		<10.0	547	224	771	<0.050	<0.050	<0.050	<0.150	<0.300	3,120
		2-3	-	Х		<10.0	<10.0	<10.0	<10.0	< 0.050	<0.050	< 0.050	<0.150	< 0.300	672
		4-5	-	Х		-	-	-	-	-	-	-	-	-	288
		6-7	-	Х		-	-	-	-	-		-	-	-	144
		9-10	-	Х		-	-	-	-	-	-	-	-	-	1,250
		14-15	-	Х		-	-	-	-	-	-	-	-	-	848
		19-20	-	Х		-	-	-	-	-	-	-	-	-	560
		24-25	-	Х			-		-	-	-	-		-	1,120
		29-30	-	Х			-		-	-	-	-		-	640
		34-35	-	Х		٠	-	•	-	-	-	-	-	-	352
SP-17	5/15/2019	0-1	-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	8,000
		2-3	-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,230
		4-5	-	Х		-	-	-	-	-	-	-	-	-	1,390
		6-7	-	Х		-	-	-	-	-	-	-	-	-	992
		9-10	-	Х		-	-	-	-	-	-	-	-	-	352
		14-15	-	Х		-	-	-	-	-	-	-	-	-	256
SP-18	5/15/2019	0-1	-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
		2-3	-	Х		<10.0	<10.0	<10.0	<10.0	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	384
		4-5	-	Х		-	-	-	-	-	-	-	-	-	384
		6-7	-	Х		-	-	-	-	-	-	-	-	-	544
		9-10	-	Х		-	-	-	-	-	-	-	-	-	736
		14-15	-	Х		-	-	-	-	-	-	-	-	-	448
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Table 1
Permian Water Solutions
Dorstate SWD
Eddy County, New Mexico

Sample ID		Sample	BEB	Soil Status			TPH	(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
	Sample Date	Depth (ft)	Sample Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SP-19	5/15/2019	0-1	-	Х		<10.0	<10.0	<10.0	<10.0	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	5,360
		2-3	-	Х		<10.0	<10.0	<10.0	<10.0	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	2,480
		4-5	-	Х		-	-	-	-	-	-	-	-	-	2,400
		6-7	-	Х		-	-	-	-	-	-	-	-	-	480
	"	9-10	-	Х		-	-	-	-	-	-	-	-	-	256
SP-20	5/16/2019	0-1	-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	< 0.300	7,920
		2-3	-	Х		<10.0	<10.0	<10.0	<10.0	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	1,630
		4-5	-	Х		-			-	-		-		-	2,480
		6-7	-	Х		-	-		-	-		-		-	432
	"	9-10	-	Х		-	-	-	-	-		-	-	-	144
SP-21	5/16/2019	0-1	-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	< 0.050	< 0.050	<0.150	< 0.300	2,760
		2-3	-	Х		<10.0	<10.0	<10.0	<10.0	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	2,680
		4-5	-	Х		-			-	-		-		-	2,240
		6-7	-	Х		-	-	-	-	-	-	-	-	-	1,920
		9-10	-	Х		-			-	-		-		-	1,340
		14-15	-	Х		-			-	-		-		-	496
		19-20	-	Х		-			-	-	-	-		-	1,100
		24-25	-	Х		-			-	-	-	-		-	1,390

Table 1
Permian Water Solutions
Dorstate SWD
Eddy County, New Mexico

		Sample	BEB	Soil Status			TPH	(mg/kg)		Benzene	Toluene	Ethlybenzene	Xvlene	Total BTEX	Chloride
Sample ID	Sample Date	Depth (ft)	Sample Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-22	10/25/2019	0-1	-	Х		1150	13,100	1,550	15,800	<0.00200	0.0422	0.0281	0.438	0.508	677
		2-3	-	Х		705	8,840	933	10,500	<0.00198	0.0222	0.022	0.347	0.391	957
		4-5	-	Х		186	3,580	369	4,140	<0.00199	0.0153	0.0223	0.198	0.235	1,560
		6-7	-	Х		<49.9	783	79.9	863	<0.00199	<0.00199	< 0.00199	0.0342	0.0342	1,380
		9-10	-	Х		<49.9	318	72.2	390	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	1,800
		14-15	-	Х		<49.8	198	<49.8	198	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	1,930
		19-20	-	Х		<50.0	87.9	<50.0	87.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	1,660
		24-25	-	Х		<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	598
		29-30	-	Х		<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	1,160
BH-23	10/25/2019	0-1	-	Х		58.1	2,320	305	2,680	<0.00200	0.00254	<0.00200	0.0192	0.0217	398
		2-3	-	Х		<49.9	430	63.0	493	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	415
		4-5	-	Х		<50.0	424	60.6	485	< 0.00199	< 0.00199	< 0.00199	<0.00199	< 0.00199	348
		6-7	-	Х		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	424
		9-10	-	Х		<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	< 0.00201	< 0.00201	403
		14-15	-	Х		<49.9	<49.9	<49.9	<49.9	<0.00199	< 0.00199	< 0.00199	<0.00199	< 0.00199	1,310
		19-20	-	Х		<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	1,490
		24-25	-	Х		<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	1,520
		29-30	-	Х		<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	2,640
BH-24	10/25/2019	0-1	-	Х		156	7,170	906	8,230	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	840
		2-3	-	Х		105	4,360	538	5,000	<0.00199	<0.00199	< 0.00199	0.0246	0.0246	983
		4-5	-	Х		67.2	2,310	245	2,620	<0.00201	<0.00201	<0.00201	0.0268	0.0268	2,810
		6-7	-	Х		<49.9	161	<49.9	161	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	362
		9-10	-	Х		<50.0	94.5	<50.0	94.5	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	1,100
		14-15	-	Х		<49.9	70.4	<49.9	70.4	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	1,290
		19-20	-	Х		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	< 0.00199	<0.00199	<0.00199	400
		24-25	-	Х		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	1,590
		29-30	-	Х		<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	2,470
BG-1	5/16/2019	0-1	-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
		2-3	-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	< 0.050	<0.150	< 0.300	208
		4-5	-	Х		-	-	-	-	-	-	-	-	-	672
		6-7	-	Х		-	-	-	-	-	-	-	-	-	352
		9-10	-	Х		-	-	-	-	-	-	-	-	-	256
		14-15	-	Х		-	-	-	-	-	-	-	-	-	176
		19-20	-	Х		-	-	-	-	-	-	-	-	-	160
		24-25	-	Х		-	-	-	-	-	-	-	-	-	144
		29-30	-	Х		-	-	-	-	-	-	-	-	-	80.0
		34-35	-	Х		-		-	-	-	-	-	-	-	128
		39-40	-	Х		-	-	-	-	-	-	-	-	-	112
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Table 1
Permian Water Solutions
Dorstate SWD
Eddy County, New Mexico

		Sample	BEB	Soil	Status		TPH	(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Sample Date	Depth (ft)	Sample Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
H-1	10/23/2019	0-1	-	Х		<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	322
		1-2	-	Х		<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	325
H-2	10/23/2019	0-1	-	Х		<50.0	169	<50.0	169	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	148
		1-2	-	Х		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	275
H-2 (1)	11/11/2019	0-1	-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
H-3	10/23/2019	0-1	-	Х		<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	135
		1-2	-	Х		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	148
H-4	10/23/2019	0-1	-	Х		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	641
		1-2	-	Х		<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	259
H-5	10/23/2019	0-1	-	Х		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	452
	"	1-2	-	Х		<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	492
H-6	10/23/2019	0-1	-	Х		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	439
	"	1-2	-	Х		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	516
H-7	10/23/2019	0-1	-	Х		<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	243
		1-2	-	Х		<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	175
H-8	10/23/2019	0-1	-	Х		<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	281
		1-2	-	Х		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	855
H-9	10/24/2019	0-8"	-	Х		<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	154
H-10	10/24/2019	0-1	-	Х		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	192
		1-2	-	Х		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	72.7
H-11	10/24/2019	0-10"	-	Х		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	0.00498	0.00914	0.01410	125
H-12	10/24/2019	0-1	-	Х		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	0.00440	0.00571	0.01010	57.4
	"	1-2	-	Х		<50.0	141	<50.0	141	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	174
H-12 (1)	11/11/2019	0-1	-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
		1-2	-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
H-13	10/24/2019	0-1	-	Х		<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	332
H-14	10/24/2019	0-1	-	Х		<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	32.0
		1-2	-	Х		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	25.8
H-15	10/24/2019	0-1	-	Х		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	6.18
		1-2	-	Х		<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	31.9
H-16	10/24/2019	0-1	-	Х		<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	22.7
		1-2	-	Х		<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	307
H-17	10/25/2019	0-1	-	Х		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	38.3
	"	1-2	-	Х		<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	58.5
H-18	10/25/2019	0-1	-	Х		<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	59.2
	"	1-2	-	Х		<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	117
H-19	10/25/2019	0-1	-	Х		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	140
	"	1-2	-	Х		<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	847
H-20	10/25/2019	0-1	-	Х		<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	435
	"	1-2	-	Х		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	126
H-21	11/11/2019	0-1	-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
H-22	11/11/2019	0-1	-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	512
											•				

( - ) Not Analyzed

# **Photos**

## Permian Water Solutions, **Dorstate SWD** Eddy County, New Mexico



View West - Area of SP-1



View North - Area of SP-2

# **TETRATEC**





View North – Area of SP-3



View West - Area of SP-4



View North - Area of SP-6



View Northwest – Area of SP-7

# TETRA TEC





View Southwest - Area of SP-8



View Southwest - Area of SP-9

# TETRA TEC





View Northwest - Area of SP-10



View Southeast - Area of SP-11



View Southeast – Area of SP-12



View Northwest – Area of SP-13 and SP-14



View North – Area of SP-15



View North - Area of SP-16



View East – Area of SP-17



View Northwest – Area of SP-18





View Southwest – Area of SP-19



View Northwest - Area of SP-20







View North – Area of SP-21

# **#**



View East - Areas of BH-22, BH-23, and BH-24



View West – North Side of Facility

Appendix A

#### NM OIL CONSERVATION

ARTESIA DISTRICT

District 1
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

AUG 29 2017

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Submit I Copy to appropriate District Office in RECEIVEB cordance with 19.15.29 NMAC.

Release Notification and Corrective Action												
NABIT	12413	5283		148	488	OPERA'	ror		X Initia	al Report		Final Report
Name of Co		ambria	in Ma	magement. L	tol. L	Contact	mike An	thony				
Address 'P' Facility Nar				TXV 79702			No. 439-63	31-43	78	······································		
racinty Nar	ile 1703	cstate Su	<u>υ</u>			Facility Typ	e Swd					
Surface Ow	ner			Mineral O	wner				API No	. 30-015	-237	198
					TION	OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/W	est Line	County		
H	27	255	28 E	1980	No	irth	660	Ea	<b>s</b> †	Edd	Y	
			Latitud	le <u> 32,102 68</u>	<u> </u>	ngitude <u>//</u>	14.068565	NAD8	3			
<b></b>					URE	OF REL						
Type of Rele		er, Produc	ed was	rer			Release 25 b			Recovered	8	9.02 //
Source of Re Was Immedia		liven?			<del></del>	If YES, To	Iour of Occurrence Whom?	ce	Date and	Hour of Dis	covery	8:04 m
1, 40, 11,11,10			Yes 🛚	No 🗌 Not Re	quired	1	, ,,,,,,,,,					
By Whom?						Date and I						
Was a Water	course Read		Yes 🔯	1 No		If YES, V	olume Impacting	the Wate	rcourse.			
If a Watercou						<u> </u>				······································		
		-	·									
Describe Cau	ise of Probl	em and Reme	dial Actio	n Taken.*				· · ·				
Overalo	wing B	ub egmu	e to t	mak drivers	inat	itention o	nd excess to	sinuate	<b></b>			
We will	get so	il sampt	s and	Trinity Envi	ሙሱሳላ	intal and	Dioceed w	ith pr	oper re	mediation	and	deanup
Describe Are	a Affected	and Cleanup	Action Tal	ken.*								
Pastu	e lan	d and	aws	location								\$ 7 m
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.												
Signature: Denier Jones						Annroyed by	OIL CON Signed By Environmental		1.1	DIVISIO	<u>NC</u>	
Printed Name	c: Den	ise Jone	<u>.</u>				A	A T				· · · · · · · · · · · · · · · · · · ·
Title: Regu	laton 1	Analyst				Approval Da	uc: 8 29 11°	11	Expiration	Date:	4	<u> </u>
E-mail Addre	J	masser		G		Conditions o	Approval:	ا مربدا ا	المرم	Attached	hF3	/ID t A
				:432-620-91								

Received by OCD: 5/27/2022 1:46:26 PM Form C-141 State of New Mexico
Page 3 Oil Conservation Division

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Incident ID	
District RP	
Facility ID	
Application ID	

#### **Site Assessment/Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ☐ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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  Data table of soil contaminant concentration data  Depth to water determination  Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release  Boring or excavation logs  Photographs including date and GIS information  Topographic/Aerial maps  Laboratory data including chain of custody	ls.

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

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	Page 50 of 18	82
Incident ID		
District RP		
Facility ID		

Application ID

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release no public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	tifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In
Printed Name:	
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

Received by OCD: 5/27/2022 1:46:26 PM Form C-141 State of New Mexico Page 5 Oil Conservation Division

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Incident ID	
District RP	
Facility ID	
Application ID	

## **Remediation Plan**

Remediation Plan Checklist: Each of the following items must b	e 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 con	ifirmed as part of any request for deferral of remediation.								
Contamination must be in areas immediately under or around p deconstruction.	roduction equipment where remediation could cause a major facility								
Extents of contamination must be fully delineated.									
Contamination does not cause an imminent risk to human healt	n, the environment, or groundwater.								
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of								
Printed Name:	Title:								
Signature:	Date:								
email:	Telephone:								
OCD Only									
Received by:	Date:								
Approved	Approval								
Signature:	Date:								

Appendix B

# Water Well Data Average Depth to Groundwater (ft) Permian Water Solutions - Dorstate SWD

	24 S	outh	:	27 East	t		24 Sc	วuth	28	8 East				24 S	outh	29	9 East	
6	5	4	3	2	1	6 <b>70</b>	5 <b>30</b>	4 3	<b>30</b> 3	2 5	5 1 60		6	5	4	3	2	1
7	8 17	9	10	11	12	7	8 <b>50</b>	9	10	11	12	ŀ	7	8	9	10	11	12
	26	43			27				17	20	73	J	160					
8 <b>30</b>		16	15	14	13 <b>30</b>	18	17	16	15	14	13		18	17 <b>4</b>	16	15	14	13
34					31		42	29	18	52	34	l l			18			
19	20	21	22	23	24	19	20	21	22	23	24	ı	19	20 /	21	22	23	24
			70				48					I						
30	29	28	27	26	25	30	29	28	27	26	25		30	29	28	27	26	25
31	32	33	34	35	36	31	32	33	34	35	36	ŀ	31	32	33	34	35	36
	<u> </u>						<u> </u>	<u> </u>			$oldsymbol{ol}}}}}}}}}}}}}}}}}}$							
	25 S	outh	:	27 East	t		25 Sc	outh	28	8 East				25 S	outh	29	9 East	
6	5	4	3	2	1	6	5	4 3	35 3 32	2	1		6	5	4	3	2	1
							59			<del></del>	Site	J	40					
7	8	9	10	11	12	7 <b>45</b>	8	9	10	11	12	I	₹	8	9	10	11	12
					92							I				40		
18	17	16	15	14	13	18	17	16	15 <b>48</b>	14	13	Ī	18	17	16	15	14	13
						67			49			I				60		
19	20	21	22	23	24	19	20 <b>96</b>	21	22	23	24		19	20	21	22	23	24
30	29	28	27	26	25	30	29	28	27	26 <b>40</b>	25	ŀ	30	29	28	27	26	25
50			-				15	90					<b>30</b>		120	-'		
31	32	33	34	35	36	31	32	33	34	35 <b>5</b> 5	5 36		31	32 11	5 33	34	35	36
J.	02	1 <b>9</b>	Ĭ .				-				40	l l	Ŭ .	02		'		
											70		<b></b>					
	26 S	outh	;	27 East	t		26 Sc	outh	28	8 East				26 S	outh	29	9 East	
6	5	4	3	2	1	6	5	4	3	2 <b>120</b>	1 5		6	5 <b>78</b>	4	3	2	1
	12									21		$\overline{}$		7				
7	8	9	10	11	12	7	8	9	10	11	12		7	8	9	10	11	12
											100	J						
18	17	16	15	14	13	18	17	16	15	14	13		18	17	16	15	14	13
					35					120	56	J	<b>!</b> }		125			
19	20	21	22	23	24	19	20	21	22	23	24		19	20	21	22 <b>57</b>	23	24
													_					1
			50						120				(			69		

88 New Mexico State Engineers Well Reports

105 USGS Well Reports

90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)

- 90 Geology and Groundwater Resources of Eddy County, NM (Report 3)
- 34 NMOCD Groundwater Data
- Abandoned Waterwell (recently measured)

(In feet)



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned,

C=the file is closed)

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

(quarters are smallest to largest) (NAD83 UTM in meters)

	POD											
POD Number	Sub- Code basin	County	Q ( 64 1	-		Tws	Rng	х	Υ	•	•	Water Column
C 01278	С	ED	4	1 3	28	25S	28E	585470	3551338* 🌍	205	90	115
<u>C 01411</u>	С	ED	4 4	2	04	25S	28E	586289	3558522* 🎒	69	35	34
C 01453	С	ED	1	2	26	25S	28E	589096	3552612*	70	40	30
C 01522	С	ED		1	22	25S	28E	586843	3554004* 🎒	150		
C 01573 POD1	С	ED	3 1	4	20	25S	28E	584144	3553361 🎒	176	96	80
C 02668	С	ED	2 1	2	09	25S	28E	585890	3557525* 🎒	150		
C 03263 POD1	CUB	ED	1 1	1	07	25S	28E	581628	3557501* 🎒	133		
C 03836 POD1	С	ED	2 2	2 4	29	25S	28E	584682	3551934 🎒	300	30	270
C 03861 POD1	С	ED	4 2	2 3	18	25S	28E	582266	3554864 🎒	91	63	28

Average Depth to Water: 59 feet

Minimum Depth: 30 feet

Maximum Depth: 96 feet

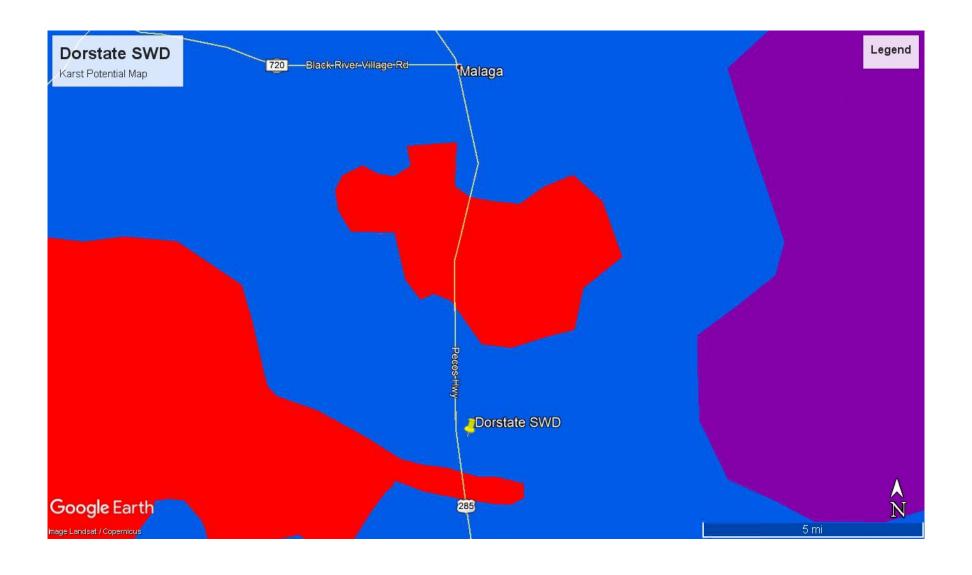
**Record Count: 9** 

**PLSS Search:** 

Township: 25S Range: 28E

\*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.





## Appendix C

Client:	Permian Water Solutions											
Site Name	Dorstate SWD											
Sample ID:	SP-1											
GPS	32.102315° -104.069380°											
Project #:	212C-MD-01743											
Total Depth	35'											
Date Installed:	5/14/2019											
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)								
0-1	Light brown sand with caliche - dry	No odor or Odor	5,740	-								
2-3	Light brown sand with caliche - dry	No Stain or odor	3,800	-								
4-5	Light brown sand with caliche - dry	No Stain or odor	2,230	-								
6-7	Light brown sand with caliche - dry	No Stain or odor	2,100	-								
9-10	Light brown sand with caliche - dry	No Stain or odor	1,900	-								
14-15	Light brown sand with caliche - dry	No Stain or odor	1,520	800								
19-20	Light brown sand with caliche - dry	No Stain or odor	1,160	-								
24-25	Light brown sand with caliche - dry	No Stain or odor	727	800								
29-30	Light brown sand with caliche - dry	No Stain or odor	628	500								
34-35	Light brown sand with caliche - dry	No Stain or odor	610	360								
<u>L</u>		1		I .								

Client:	Permian Water Solutions											
Site Name	Dorstate SWD											
Sample ID:	SP-2											
GPS	32.102545° -104.069328°											
Project #:	212C-MD-01743											
Total Depth	60'											
Date Installed:	5/14/2019											
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)								
0-1	Light brown sand with caliche - dry	No odor or Odor	9,100	-								
2-3	Light brown sand with caliche - dry	No Stain or odor	9,000	-								
4-5	Light brown sand with caliche - dry	No Stain or odor	2,210	-								
6-7	Sand with caliche and limestone - dry	No Stain or odor	2,300	-								
9-10	Sand with caliche and limestone - dry	No Stain or odor	1,010	-								
14-15	Sand with caliche and limestone - dry	No Stain or odor	2,700	-								
19-20	Sand with caliche and limestone - dry	No Stain or odor	3,670	-								
24-25	Sand with caliche and limestone - dry	No Stain or odor	2,970	-								
29-30	Sand with caliche and limestone - dry	No Stain or odor	2,000	-								
34-35	Sand with caliche and limestone - dry	No Stain or odor	1,720	-								
39-40	Sand with caliche and limestone - dry	No odor or Odor	1,800	1480								
44-45	Sand with caliche and limestone - dry	No Stain or odor	2,650	-								
49-50	Sand with caliche and limestone - dry	No Stain or odor	1,670	-								
54-55	Sand with caliche and limestone - damp	No Stain or odor	1,230	-								
55-60	Sand with caliche and limestone - damp	No Stain or odor	1,730	-								
				_								

Client:	Permian Water Solutions										
Site Name	Dorstate SWD										
Sample ID:	SP-3										
GPS	32.102771° -104.069347°										
Project #:	212C-MD-01743										
Total Depth	15'										
Date Installed:	5/14/2019										
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)							
0-1	Light tan sand with caliche - dry	Faint odor	3200	-							
2-3	Light tan sand with caliche - dry	Faint odor	1,100	-							
4-5	Light tan sand with caliche - dry	Faint odor	2,600	-							
6-7	Light tan sand with caliche - dry	No Stain or odor	900	-							
9-10	Light tan sand with caliche - dry	No Stain or odor	670	400							
14-15	Light tan sand with caliche - dry	No Stain or odor	650	440							

SP-4			
32.102701° -104.069066°			
oride (ppm)			
-			
-			
-			
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-			
560			
-			
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Client:	Permian Water Solutions			
Site Name	Dorstate SWD			
Sample ID:	SP-6			
GPS	32.102344° -104.069082°			
Project #:	212C-MD-01743			
Total Depth	45'			
Date Installed:	5/15/2019			
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
0-1	Light brown sand - dry	No Stain or odor	3,560	-
2-3	Light brown sand - dry	No Stain or odor	3,000	-
4-5	Brown clay with gypsum - dry	No Stain or odor	1,090	-
6-7	Brown clay with gypsum - dry	No Stain or odor	2,600	-
9-10	Brown clay with gypsum - dry	No Stain or odor	2,080	960
14-15	Brown silty sand with gypsum - dry	No Stain or odor	2,160	-
19-20	Brown silty sand with gypsum - dry	No Stain or odor	1,090	600
24-25	Brown silty sand with gypsum - dry	No Stain or odor	1,220	920
29-30	Brown silty sand with gypsum - dry	No Stain or odor	1,000	-
34-35	Brown silty sand with gypsum - dry	No Stain or odor	1,600	-
39-40	Brown silty sand with gypsum - dry	No odor or Odor	597	400
44-45	Brown silty sand with gypsum - dry	No Stain or odor	315	200

Client:	Permian Water Solutions			
Site Name	Dorstate SWD			
Sample ID:	SP-7			
GPS	32.102316° -104.068824°			
Project #:	212C-MD-01743			
Total Depth	30'			
Date Installed:	5/15/2019			
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
0-1	Sand with caliche and gravel - dry	No Stain or odor	7,300	-
2-3	Light brown sand with gravel - dry	No Stain or odor	3,560	-
4-5	Light brown sand with gravel - dry	No Stain or odor	2,360	-
6-7	Light brown sand with gravel - dry	No Stain or odor	1,930	-
9-10	Sand with caliche and gravel - dry	No Stain or odor	1,600	-
14-15	Brown silty sand with gypsum - dry	No Stain or odor	998	-
19-20	Brown silty sand with gypsum - dry	No Stain or odor	845	-
24-25	Brown silty sand with gypsum - dry	No Stain or odor	829	-
29-30	Brown silty sand with gypsum - dry	No Stain or odor	697	-
34-35	Brown silty sand with gypsum - dry	No Stain or odor	1,600	560
39-40	Brown silty sand with gypsum - dry	No odor or Odor	597	540
44-45	Brown silty sand with gypsum - dry	No Stain or odor	315	400

Client:	Permian Water Solutions			
Site Name	Dorstate SWD			
Sample ID:	SP-8			
GPS	32.102516° -104.068842°			
Project #:	212C-MD-01743			
Total Depth	50'			
Date Installed:	5/15/2019			
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
0-1	Light brown sand - dry	No Stain or odor	5,800	-
2-3	Light tan sand and caliche - dry	No Stain or odor	3,060	-
4-5	Light tan sand and caliche - dry	No Stain or odor	2,490	-
6-7	Light tan sand with caliche & gravel - dry	No Stain or odor	2,000	-
9-10	Light tan sand with caliche & gravel - dry	No Stain or odor	1,860	-
14-15	Light tan sand with caliche & gravel - dry	No Stain or odor	1,990	-
19-20	Light tan sand with caliche & gravel - dry	No Stain or odor	3,440	-
24-25	Light tan sand, caliche, limestone - dry	No Stain or odor	2,890	-
29-30	Light tan sand, caliche, limestone - dry	No Stain or odor	3,800	-
34-35	Light tan sand, caliche, limestone - dry	No Stain or odor	4,100	-
39-40	Light tan sand, caliche, limestone - dry	No odor or Odor	4,700	-
44-45	Light tan sand, caliche, limestone - dry	No Stain or odor	4,800	-
49-50	Sand with caliche and limestone - damp	No Stain or odor	5,110	-

Client:	Permian Water Solutions			
Site Name	Dorstate SWD			
Sample ID:	SP-9			
GPS	32.102768° -104.068825°			
Project #:	212C-MD-01743			
Total Depth	40'			
Date Installed:	5/15/2019			
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
0-1	Sand with caliche and limestone - dry	No Stain or odor	8,290	-
2-3	Sand with caliche and limestone - dry	No Stain or odor	7,840	-
4-5	Sand with caliche and limestone - dry	No Stain or odor	3,500	-
6-7	Sand with caliche and limestone - dry	No Stain or odor	3,000	-
9-10	Sand with caliche and limestone - dry	No Stain or odor	2,360	-
14-15	Sand with caliche and limestone - dry	No Stain or odor	1,240	-
19-20	Sand with caliche and limestone - dry	No Stain or odor	2,500	-
24-25	Sand with caliche and limestone - dry	No Stain or odor	3,010	-
29-30	Sand with caliche and limestone - dry	No Stain or odor	3,560	-
34-35	Sand with caliche and limestone - dry	No Stain or odor	3,200	-
39-40	Sand with caliche and limestone - dry	No Stain or odor	4,010	-

Client:	Permian Water Solutions			
Site Name	Dorstate SWD			
Sample ID:	SP-10			
GPS	32.102775° -104.068536°			
Project #:	212C-MD-01743			
Total Depth	40'			
Date Installed:	5/17/2019			
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
0-1	Sand with caliche and limestone - dry	No Stain or odor	5,100	-
2-3	Sand with caliche and limestone - dry	No Stain or odor	5,220	-
4-5	Sand and caliche - dry	No Stain or odor	3,790	-
6-7	Sand with caliche and limestone - dry	No Stain or odor	3,600	-
9-10	Sand with caliche and limestone - dry	No Stain or odor	3,360	-
14-15	Sand with caliche and limestone - dry	No Stain or odor	3,600	-
19-20	Sand with caliche and limestone - dry	No Stain or odor	4,800	-
24-25	Sand with caliche and limestone - dry	No Stain or odor	2,300	-
29-30	Sand with caliche and limestone - dry	No Stain or odor	1,190	-
34-35	Sand with caliche and limestone - dry	No Stain or odor	3,500	-
39-40	Sand with caliche and limestone - dry	No Stain or odor	2,960	-

Client:	Permian Water Solutions			
Site Name	Dorstate SWD			
Sample ID:	SP-11			
GPS	32.102542° -104.068529°			
Project #:	212C-MD-01743			
Total Depth	45'			
Date Installed:	5/17/2019			
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
0-1	Sand with caliche - dry	No Stain or odor	2,770	-
2-3	Sand with caliche - dry	No Stain or odor	3,100	-
4-5	Sand with caliche - dry	No Stain or odor	1,900	-
6-7	Sand with caliche and gypsum - dry	No Stain or odor	1,620	-
9-10	Sand with caliche and gypsum - dry	No Stain or odor	2,630	-
14-15	Sandy clay with gypsum - dry	No Stain or odor	4,800	-
19-20	Sandy clay with gypsum - dry	No Stain or odor	4,700	-
24-25	Sandy clay with gypsum - dry	No Stain or odor	3,600	-
29-30	Sandy clay with gypsum - dry	No Stain or odor	2,930	-
34-35	Sandy clay with gypsum - dry	No Stain or odor	3,970	-
39-40	Sandy clay with gypsum - dry	No Stain or odor	3,770	-
44-45	Sandy clay with gypsum - dry	No Stain or odor	2,260	-
	T .			

Client:	Permian Water Solutions			
Site Name	Dorstate SWD			
Sample ID:	SP-12			
GPS	32.102373° -104.068527°			
Project #:	212C-MD-01743			
Total Depth	45'			
Date Installed:	5/17/2019			
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
0-1	Sand with caliche - dry	No Stain or odor	4,360	-
2-3	Sand with caliche - dry	No Stain or odor	3,280	-
4-5	Sand with caliche - dry	Heavy odor	-	-
6-7	Sand with caliche - dry	Heavy odor	-	-
9-10	Sand with limestone - dry	Heavy odor	2,680	-
14-15	Sand with limestone - dry	Heavy odor	1,940	-
19-20	Sand with limestone - dry	Moderate odor	1,860	-
24-25	Sand with limestone - dry	Moderate odor	2,990	-
29-30	Sand with limestone - dry	Faint odor	3,420	-
34-35	Sandy clay with gypsum - dry	No Stain or odor	3,560	-
39-40	Sandy clay with gypsum - dry	No Stain or odor	2,600	-
44-45	Sandy clay with gypsum - dry	No Stain or odor	1,600	-

Client:	Permian Water Solutions			
Site Name	Dorstate SWD			
Sample ID:	SP-13			
GPS	32.102207° -104.068164°			
Project #:	212C-MD-01743			
Total Depth	40'			
Date Installed:	5/17/2019			
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
0-1	Sand, limestone, and caliche - dry	No Stain or odor	3,040	-
2-3	Sand, limestone, and caliche - dry	No Stain or odor	2,990	-
4-5	Sand, limestone, and caliche - dry	No Stain or odor	2,050	-
6-7	Sand, limestone, and caliche - dry	No Stain or odor	201	-
9-10	Sand, limestone, and caliche - dry	No Stain or odor	3,890	-
14-15	Sand, limestone, and caliche - dry	No Stain or odor	4,060	-
19-20	Sand, limestone, and caliche - dry	No Stain or odor	5,900	-
24-25	Sand and caliche - dry	No Stain or odor	4,230	-
29-30	Sand and caliche - dry	No Stain or odor	1,190	-
34-35	Sand and caliche - dry	No Stain or odor	3,500	-
39-40	Sand and caliche - dry	No Stain or odor	2,960	-

Client:	Permian Water Solutions			
Site Name	Dorstate SWD			
Sample ID:	SP-14			
GPS	32.102209° -104.067787°			
Project #:	212C-MD-01743			
Total Depth	30'			
Date Installed:	5/15/2019			
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
0-1	Red clay with gypsum - dry	No Stain or odor	3,260	-
2-3	Red clay with gypsum - dry	No Stain or odor	4,010	-
4-5	Red clay with gypsum - dry	No Stain or odor	4,180	-
6-7	Red clay with gypsum - dry	No Stain or odor	2,340	-
9-10	Calcareous clay with gypsum - dry	No Stain or odor	2,000	1400
14-15	Calcareous clay with gypsum - dry	No Stain or odor	2,340	1400
19-20	Calcareous clay with gypsum - dry	No Stain or odor	1,230	1200
24-25	Calcareous clay with gypsum - dry	No Stain or odor	1,580	-
29-30	Calcareous clay with gypsum - dry	No Stain or odor	486	-

Client:	Permian Water Solutions			
Site Name	Dorstate SWD			
Sample ID:	SP-15			
GPS	32.102208° -104.067459°			
Project #:	212C-MD-01743			
Total Depth	30'			
Date Installed:	5/15/2019			
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
0-1	Red clay with gypsum - dry	No Stain or odor	7,240	-
2-3	Red clay with gypsum - dry	No Stain or odor	7,300	-
4-5	Red clay with gypsum - dry	No Stain or odor	6,360	-
6-7	Red clay with gypsum - dry	No Stain or odor	5,800	-
9-10	Calcareous clay with gypsum - dry	No Stain or odor	3,260	-
14-15	Calcareous clay with gypsum - dry	No Stain or odor	2,800	-
19-20	Calcareous clay with gypsum - dry	No Stain or odor	1,040	-
24-25	Calcareous clay with gypsum - dry	No Stain or odor	470	480
29-30	Calcareous clay with gypsum - dry	No Stain or odor	394	200

Permian Water Solutions			
Dorstate SWD			
SP-16			
32.102208° -104.067158°			
212C-MD-01743			
35'			
5/16/2019			
Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
Red clay with gypsum - dry	No Stain or odor	3,900	-
Red clay with gypsum - dry	No Stain or odor	1,830	-
Calcareous clay with gypsum - dry	No Stain or odor	1,560	-
Calcareous clay with gypsum - dry	No Stain or odor	1,470	-
Calcareous clay with gypsum - dry	No Stain or odor	1,980	-
Calcareous clay with gypsum - dry	No Stain or odor	1,250	800
Calcareous clay with gypsum - dry	No Stain or odor	1,100	800
Calcareous clay with gypsum - dry	No Stain or odor	1,440	840
Calcareous clay with gypsum - dry	No Stain or odor	760	200
Calcareous clay with gypsum - dry	No Stain or odor	944	320
	Dorstate SWD  SP-16 32.102208° -104.067158° 212C-MD-01743 35' 5/16/2019  Lithology/Sample Description  Red clay with gypsum - dry  Red clay with gypsum - dry  Calcareous clay with gypsum - dry	Dorstate SWD  SP-16  32.102208° -104.067158°  212C-MD-01743  35'  5/16/2019  Lithology/Sample Description NOTES  Red clay with gypsum - dry No Stain or odor  Red clay with gypsum - dry No Stain or odor  Calcareous clay with gypsum - dry No Stain or odor  Calcareous clay with gypsum - dry No Stain or odor  Calcareous clay with gypsum - dry No Stain or odor  Calcareous clay with gypsum - dry No Stain or odor  Calcareous clay with gypsum - dry No Stain or odor  Calcareous clay with gypsum - dry No Stain or odor  Calcareous clay with gypsum - dry No Stain or odor  Calcareous clay with gypsum - dry No Stain or odor  Calcareous clay with gypsum - dry No Stain or odor	Dorstate SWD  SP-16  32.102208° -104.067158°  212C-MD-01743  35'  5/16/2019  Lithology/Sample Description NOTES Salinity (ppm)  Red clay with gypsum - dry No Stain or odor 1,830  Calcareous clay with gypsum - dry No Stain or odor 1,560  Calcareous clay with gypsum - dry No Stain or odor 1,470  Calcareous clay with gypsum - dry No Stain or odor 1,980  Calcareous clay with gypsum - dry No Stain or odor 1,250  Calcareous clay with gypsum - dry No Stain or odor 1,250  Calcareous clay with gypsum - dry No Stain or odor 1,100  Calcareous clay with gypsum - dry No Stain or odor 1,440  Calcareous clay with gypsum - dry No Stain or odor 1,440  Calcareous clay with gypsum - dry No Stain or odor 760

Client:	Permian Water Solutions			
Site Name	Dorstate SWD			
Sample ID:	SP-17			
GPS	32.103096° -104.068561°			
Project #:	212C-MD-01743			
Total Depth	15'			
Date Installed:	5/16/2019			
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
0-1	Red clay with gypsum - dry	No Stain or odor	6,380	-
2-3	Sand with limestone - dry	No Stain or odor	4,800	-
4-5	Sand with limestone - dry	No Stain or odor	1,090	-
6-7	Sand with limestone - dry	No Stain or odor	1,050	-
9-10	Sand with limestone - dry	No Stain or odor	495	280
14-15	Sand with limestone - dry	No Stain or odor	235	200

Client:	Permian Water Solutions			
Site Name	Dorstate SWD			
Sample ID:	SP-18			
GPS	32.103216° -104.068194°			
Project #:	212C-MD-01743			
Total Depth	15'			
Date Installed:	5/16/2019			
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
0-1	Light brown sand - dry	No Stain or odor	229	-
2-3	Light brown sand - dry	No Stain or odor	560	-
4-5	Clay with gypsum - dry	No Stain or odor	1,360	-
6-7	Clay with gypsum - dry	No Stain or odor	773	-
9-10	Clay with gypsum - dry	No Stain or odor	1,010	520
14-15	Clay with gypsum - dry	No Stain or odor	824	440

Client:	Permian Water Solutions			
Site Name	Dorstate SWD			
Sample ID:	SP-19			
GPS	32.103339° -104.068507°			
Project #:	212C-MD-01743			
Total Depth	10'			
Date Installed:	5/16/2019			
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
0-1	Light brown sand - dry	No Stain or odor	2,600	-
2-3	Sand with caliche - dry	No Stain or odor	1,200	-
4-5	Sand with caliche - dry	No Stain or odor	1,200	1520
6-7	Sand with gypsum - dry	No Stain or odor	394	280
9-10	Sand with gypsum - dry	No Stain or odor	465	360

Client:	Permian Water Solutions			
Site Name	Dorstate SWD			
Sample ID:	SP-20			
GPS	32.103622° -104.068501°			
Project #:	212C-MD-01743			
Total Depth	10'			
Date Installed:	5/16/2019			
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
0-1	Light brown sand - dry	No Stain or odor	4,600	-
2-3	Sand with caliche - dry	No Stain or odor	2,360	-
4-5	Sandy clay with gypsum - dry	No Stain or odor	1,100	-
6-7	Sandy clay with gypsum - dry	No Stain or odor	623	400
9-10	Sandy clay with gypsum - dry	No Stain or odor	286	200
P	•	•		

Client:	Permian Water Solutions			
Site Name	Dorstate SWD			
Sample ID:	SP-21			
GPS	32.103732° -104.068287°			
Project #:	212C-MD-01743			
Total Depth	25'			
Date Installed:	5/16/2019			
Dato motanoa:	0/10/2010			
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
0-1	Light brown sand - dry	No Stain or odor	2,760	-
2-3	Sand with caliche - dry	No Stain or odor	2,800	-
4-5	Sandy clay with gypsum - dry	No Stain or odor	2,060	-
6-7	Sandy clay with gypsum - dry	No Stain or odor	1,990	-
9-10	Sandy clay with gypsum - dry	No Stain or odor	1,520	-
14-15	Sandy clay with gypsum - dry	No Stain or odor	748	-
19-20	Sandy clay with gypsum - dry	No Stain or odor	1,620	1200
24-25	Sandy clay with gypsum - dry	No Stain or odor	1,900	-
	, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,,,,,,	

Client:	Permian Water Solutions										
Site Name	Dorstate SWD										
Sample ID:	BG-1										
GPS	32.103471°, -104.069609°										
Project #:	212C-MD-01743										
Total Depth	40'										
Date Installed:	5/16/2019										
	•										
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)							
0-1	Brown sand - dry	No Stain or odor	330	-							
2-3	Sand with limestone - dry	No Stain or odor	450	-							
4-5	Sand with limestone - dry	No Stain or odor	1,230	-							
6-7	Sand with gypsum - dry	No Stain or odor	367	-							
9-10	Sand with gypsum - dry	No Stain or odor	260	-							
14-15	Sand with gypsum - dry	No Stain or odor	157	-							
19-20	Sandy clay with gypsum - dry	No Stain or odor	186	-							
24-25	Sandy clay with gypsum - dry	No Stain or odor	185	-							
29-30	Sandy clay with gypsum - dry	No Stain or odor	195	-							
34-35	Sandy clay with gypsum - dry										
39-40	Sandy clay with gypsum - dry	No Stain or odor	350	-							
	•										

## TETRA TECH

Borehole ID: BH-22 Soil Drilling Log with Field Testing Results

Project Name: Dorstate SWD

Project No.: Pending

Location: Eddy Co, NM

**Coordinates**: 32.103014 -104.069327

Elevation :

Date: Friday, October 25, 2019

Sampler : Conner Moehring

Driller: Scarborough Drilling

Method: Air Rotary

Diack and grey gravel and sand large grey and black rocks  Very dense lever of caliche  black and grey caliche  H.O  55  HLO  55  HLO  55  HLO  55  HLO  60  HLO  65  Lan and yellow caliche  tan and yellow caliche with noudles  1,520  S.O  70  Wellow caliche  Moist yellow/white caliche  Moist yellow/white caliche  Moist yellow/white caliche  Comments: T.D 30'
45 —

<sup>\*</sup> H.O. = Heavy Odor

<sup>\*</sup> L.O. = Low Odor

<sup>\*</sup> H.S. = Heavy Staining

<sup>\*</sup> L.S. = Low Staining

## TETRA TECH

Borehole ID: BH-23 Soil Drilling Log with Field Testing Results

Project Name: Dorstate SWD

Project No.: Pending

Location: Eddy Co, NM

**Coordinates**: 32.103021 -104.069062

Elevation :

Date: Friday, October 25, 2019

Sampler: Conner Moehring

Driller: Scarborough Drilling

Method: Air Rotary

Depth (ft.) W	L Soil Description	Chloride Field Test (ppm)	PID	Depth (ft.)	VL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
° <b>T</b> [	Black and grey gravel		S.O	50				
<b></b>	large and grey gravel with caliche		S.O	<b>‡</b>				
5	yellow and white caliche		S.O	55				
10	white and grey caliche	920	S.O	60				
15	white and yellow caliche		L.O	65				
20	white and yellow caliche	1,900	L.O	70				
25	Fine powdery gypsum		L.O	75				
30	moist caliche yellowish white			#	Co	omments: T.D 30'		
35				#				
40				#				
#								
45								
50				<u></u>				

<sup>\*</sup> H.O. = Heavy Odor

<sup>\*</sup> L.O. = Low Odor

<sup>\*</sup> H.S. = Heavy Staining

<sup>\*</sup> L.S. = Low Staining



#### Borehole ID: BH-24

Soil Drilling Log with Field Testing Results

Project Name: Dorstate SWD

Project No.: Pending

Location: Eddy Co, NM

**Coordinates**: 32.102988 -104.068980

Elevation :

Date: Friday, October 25, 2019

Sampler: Conner Moehring

Driller: Scarborough Drilling

Method: Air Rotary

Depth (ft.) WL	. Soil Description	Chloride Field Test (ppm)	PID	Depth (ft.) W	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
• 🛨 🗆	Grey , yellow caliche and gravel  Large caliche gravel		H.O	50 🛨			
5	grey caliche		H.O	55			
#	Dense layer of caliche		0	#			
10	tan/ white caliche		н.о	60			
10	white caliche		H.O	65 -			
	brown yellow caliche		н.о	70			
25	brown yellow caliche		S.O	75			
30	Mosit fine caliche		S.O	#	Comments: T.D 30'		
35				1			
40				#			
45				#			
45				#			

<sup>\*</sup> H.O. = Heavy Odor

<sup>\*</sup> L.O. = Low Odor

<sup>\*</sup> H.S. = Heavy Staining

Appendix D



PO Box 301 | Lovington, NM 88260 | Phone 575.396.2378

August 28, 2018

Attn. Mike Bratcher NMOCD, District 2 811 South First Street Artesia, NM 88210

> RE: Corrective Action Plan Cambrian Management Dorstate SWD UL/H Sec.27, T25S R28E 32.102789, -104.068449 NMOCD Reference # 2RP – 4364

Mr. Bratcher:

Cambrian Management (Cambrian) has retained Basin Environmental Service Technologies (Basin) to address potential environmental concerns at the above-referenced site.

#### **Background and Previous Work**

The site is located approximately eight and one-half (8.5) miles south of Malaga, New Mexico at Unit Letter H of Section 27 in Township 25 South of Range 28 East (See Figure 1). This site is located in an area where groundwater is anticipated to be encountered at an estimated depth sixty-five (65) +/- feet below ground surface (bgs) (See Figure 4).

On August 23, 2017, a representative of the New Mexico State Land Office (NMSLO) notified Cambrian and the New Mexico Oil Conservation Division's (NMOCD) Artesia District Office via email that a release (or series of releases) had occurred at the Dorstate Salt Water Disposal (SWD). It was determined that driver inattention and excess rainwater had caused the on-site sumps to overflow. This resulted in the release of approximately twenty-five (25) barrels of produced water. No liquids from the release were recovered. An environmental site assessment was performed, and it was determined that the current release and/or historical release(s) is estimated to have a impacted two-hundred and twelve thousand, six-hundred and seventy-two (212,672) square feet (ft²) of gypsum pad and pasture. An initial C-141 (Release Notification and Corrective Action) was submitted to NMOCD on August 24<sup>th</sup>, 2017 for approval.

Basin personnel were on site beginning July 23<sup>rd</sup>, 2018, to perform another assessment. Discrete soil samples were retrieved on the perimeter of the stain to establish the horizontal extent of the impact. Field screens indicate that the release spread in the subsurface or a historical(s) release was encountered as the subsurface perimeter extended beyond the visible stain.

#### **Corrective Action Plan**

The pad area will be excavated to an approximate depth of 1-2', bgs. The remediated soils will be disposed of at an NMOCD approved landfill. The excavated pad area will be backfilled with clean, non-impacted gypsum, rolled and compacted before being contoured to the surrounding area.

The impacted pasture area will be excavated to a maximum depth of four (4) feet bgs. Once the floor depth of the excavation is established, numerous discrete soil samples will be retrieved from both the floor of the excavation as well as the walls and delivered to an NMOCD approved laboratory for analyses of benzene, toluene, ethyl-benzene xylenes (BTEX), gasoline range organics (GRO), diesel range organics (DRO), oil range organics (ORO), (total petroleum hydrocarbons [TPH], and chlorides. If the laboratory analyses indicate any of the constituents of interest are above the recommended remediation action levels (RRAL) for this location (1,000 mg/kg – TPH, 50 mg/kg – BTEX, 600 mg/kg – chlorides), after delineation, a 20-mil liner will be placed to ensure percolation is limited vertically downward as well as preventing effusion upwards towards the surface. Before liner placement (if required), full delineation of each sample point will occur. (See attached Perimeter Sampling Map). The impacted soil will be removed and disposed of at an approved NMOCD facility. The pasture excavation will be backfilled with clean, non-impacted topsoil and contoured to the surrounding area.

In the event the reserve pit area is encountered during remediation, the perimeter of the reserve pit will be identified, and it will have a new liner placed with 2' of clean, non-impacted topsoil placed and contoured for drainage.

At a time conducive for germination, the location will be seeded with the preferred seed mix of the land owner free of non-noxious or invasive vegetation. The seed will be applied with either a drill or broadcast method to ensure complete coverage of affected area. The seeds will then be sown with a disc (in compacted soils), rake or a harrow.

The supporting documentation for this Corrective Action Plan is attached.

Basin appreciates the opportunity to work with you on this project. Please contact me if you have any questions or wish to discuss the site.

Sincerely,

M

Robbie Runnels Project Manager

Basin Environmental Service Technologies

(575) 396-2378

#### Attachments:

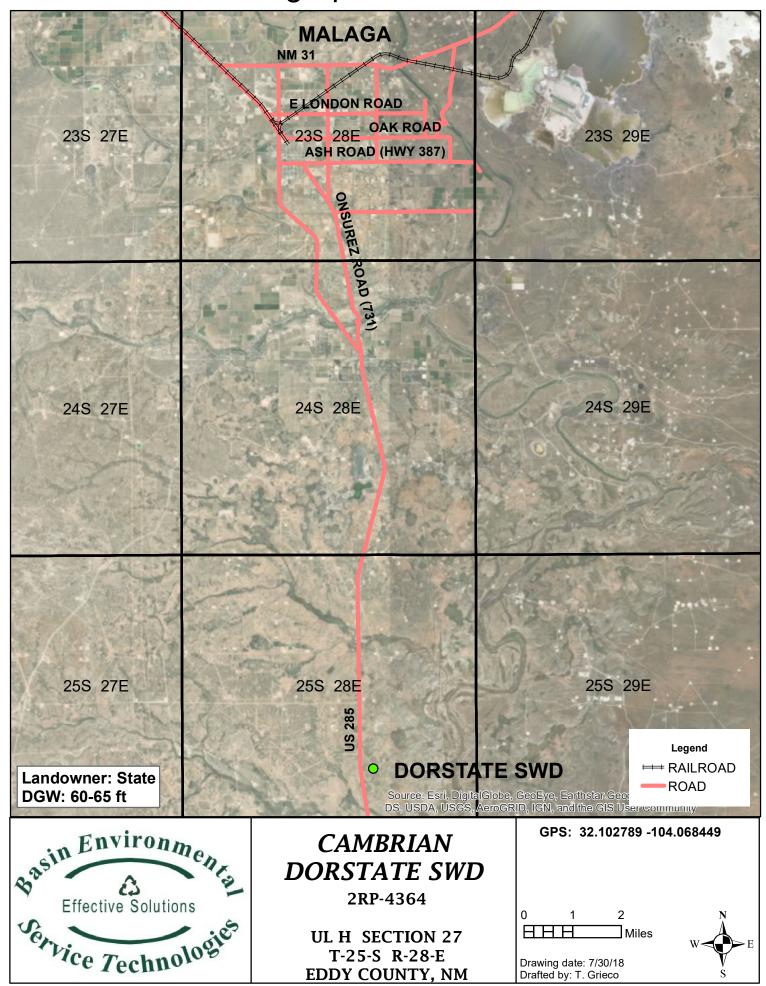
Figure 1 – Site Location Map

Figure 2 - Area Sampling Data and Proposed Excavation

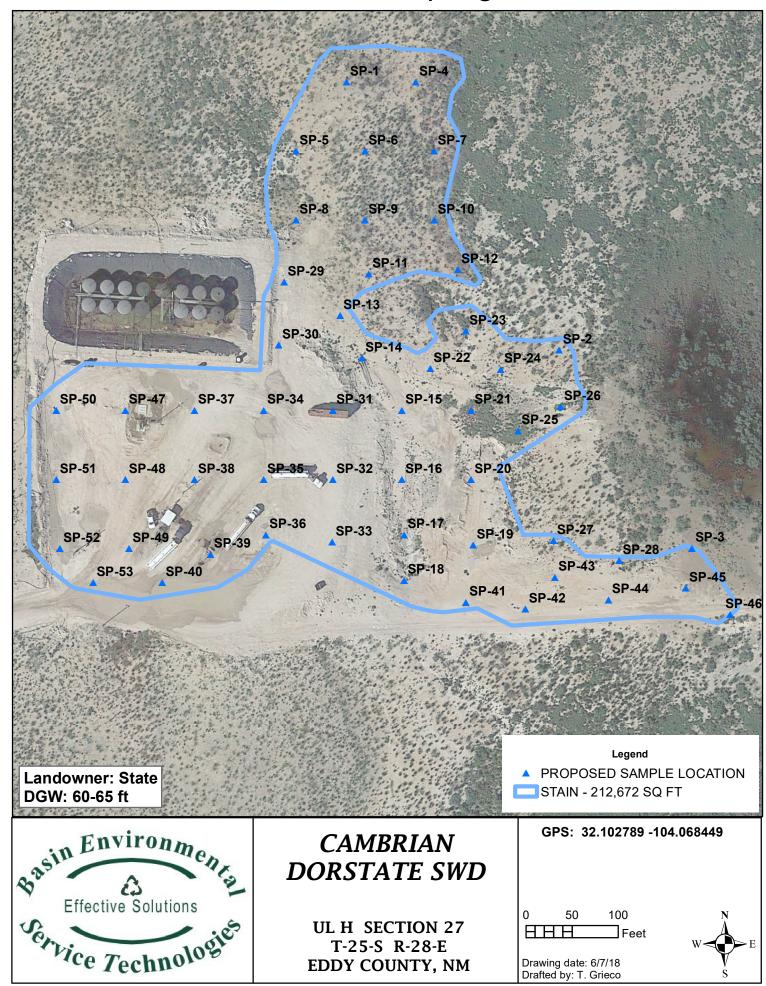
Figure 3 – Approximate Depth to Groundwater Figure 4 - Soil Chemistry Table

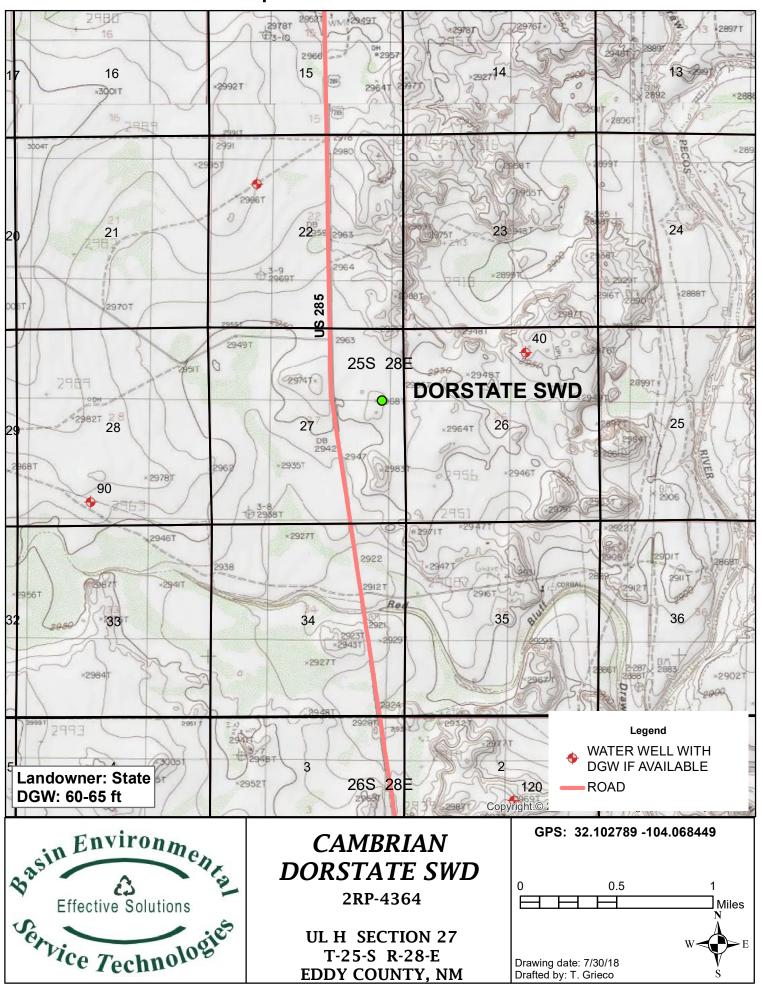
Appendix A – Photo Documentation Appendix B – Initial C-141 Forms

Appendix C – Analytical Reports



## **Initial Sampling**





				l N	METHOD: EF	PA SW 846-8	3021B, 5030			METHO	D: 8015M		300
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C <sub>6</sub> -C <sub>12</sub> (mg/Kg)	DRO C <sub>12</sub> -C <sub>28</sub> (mg/Kg)	EXT DRO C <sub>28</sub> -C <sub>35</sub> (mg/Kg)	TPH C <sub>6</sub> -C <sub>35</sub> (mg/Kg)	CHLORIDE (mg/Kg)
NMOCD Recommended	Remediation	Action Levels	s (RRALs)	10	NE	NE	NE	50	NE	NE	NE	1,000	600
00.4.0.41	1 41	0.000.000.00	1 0"	1 0050		0.050	0.450		400	40.0	40.0	40.0	4 222
SP-1 @ 1'	1'	3/29/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	4,030
SP-1 @ 5'	5'	3/29/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2,120
SP-1 @ 9'	9'	3/29/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,610
SP-2 @ 1'	1'	3/29/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	55.7
SP-3 @ 1'	1'	3/29/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	75.1
SP-4 @ 1'	1'	4/2/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	4,740
SP-4 @ 1 SP-4 @ 3'	3'	4/2/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,860
SP-4 @ 5'	5'	4/2/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	850
SP-4 @ 6'	6'	4/2/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	758
31 -4 @ 0	0	4/2/2010	III-Oitu	<b>\0.030</b>	<b>~</b> 0.030	<b>\0.030</b>	<b>~</b> 0.130	<b>\0.300</b>	<b>\10.0</b>	×10.0	×10.0	×10.0	738
SP-5 @ 1'	1'	4/2/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	4,800
SP-5 @ 3'	3'	4/2/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	3,900
SP-6 @ 1'	1'	4/2/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	38.3
SP-7 @ 1'	1'	4/2/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	98.4
SP-8 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	8,070
SP-9 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	119
SP-10 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	35.6
SP-11 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	29.7	<10.0	29.7	5,040
SP-12 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,450
SP-12 @ 3'	3'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2,460
SP-12 @ 5'	5'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,180
SP-13 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2,600

				N	METHOD: EF	PA SW 846-8	3021B, 5030			METHO	D: 8015M		300
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C <sub>6</sub> -C <sub>12</sub> (mg/Kg)	DRO C <sub>12</sub> -C <sub>28</sub> (mg/Kg)	EXT DRO C <sub>28</sub> -C <sub>35</sub> (mg/Kg)	TPH C <sub>6</sub> -C <sub>35</sub> (mg/Kg)	CHLORIDE (mg/Kg)
NMOCD Recommended	Remediation	Action Levels	s (RRALs)	10	NE	NE	NE	50	NE	NE	NE	1,000	600
SP-14 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	9,180
SP-15 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	37.0	11.5	48.5	5,240
SP-16 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	269
SP-17 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,710
SP-18 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	3,130
SP-19 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,150
SP-20 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	31.0
SP-21 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0
SP-22 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SP-23 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	37.9
SP-24 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	20.5
SP-25 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2,390
SP-26 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	292
SP-27 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	35.7	24.9	60.6	931
SP-28 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	945
SP-29 @ 1'	1'	4/9/2018	In-Situ	_		-	-		_	-	-	_	1,310
SP-29 @ 8'	8'	4/9/2018	In-Situ	-	-	-	-	-	-	-	-	-	336

				l M	IETHOD: EF	PA SW 846-8	021B, 5030			METHO	D: 8015M		300
SAMPLE LOCATION	(BGS)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)		DRO C <sub>12</sub> -C <sub>28</sub> (mg/Kg)	EXT DRO C <sub>28</sub> -C <sub>35</sub> (mg/Kg)	TPH C <sub>6</sub> -C <sub>35</sub> (mg/Kg)	CHLORIDE (mg/Kg)
NMOCD Recommended	Remediation	Action Levels	s (RRALs)	10	NE	NE	NE	50	NE	NE	NE	1,000	600
CD 20 @ 41	41	4/9/2018	In-Situ	<0.050	40.050	40.050	10.450	40.000	-400	440.0	440.0	440.0	4.400
SP-30 @ 1'	1' 6'	4/9/2018		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,490
SP-30 @ 6'	6	4/9/2018	In-Situ		-	-	-	-	-	-	-	-	336
SP-31 @ 1'	1'	4/9/2018	In-Situ	I -			_		l -	I -	l -		928
SP-31 @ 10'	10'	4/10/2018	In-Situ	<del>-</del>		_						-	944
31-31 @ 10	10	4/10/2010	III-Oitu		<u>-</u>		-		_	_			344
SP-32 @ 1'	1'	4/10/2018	In-Situ	<u> </u>	-	-	-				-	-	912
SP-32 @ 10'	10'	4/10/2018	In-Situ	_	_	_	-	_	_	_	_	_	560
SP-33 @ 1'	1'	4/10/2018	In-Situ	-	_	_	-	-	_	<b>-</b>	-	-	4,240
SP-33 @ 10'	10'	4/10/2018	In-Situ	-	-	-	-	-	-	-	-	-	3,800
									,				·
SP-34 @ 1'	1'	4/10/2018	In-Situ	-	-	-	-	-	-	-	-	-	7,100
SP-34 @ 10'	10'	4/10/2018	In-Situ	-	-	-	-	-	-	-	-	-	1,540
SP-35 @ 1'	1'	4/10/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	97.7	38.0	136	8,200
SP-35 @ 10'	10'	4/10/2018	In-Situ	-	-	-	-	-	-	-	-	-	4,300
									I				
SP-36 @ 1'	1'	4/11/2018	In-Situ	<0.050	0.062	<0.050	1.12	1.18	38.1	1,190	216	1,444	12,000
SP-36 @ 10'	10'	4/11/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	19.2	<10.0	19.2	2,320
SP-37 @ 1'	1'	4/11/2018	In-Situ	T -	Γ	Π	-				l	-	F 440
SP-37 @ 10'	10'	4/11/2018	In-Situ	-	-	-	-	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	-	5,440 4,560
3F-37 @ 10	10	4/11/2010	III-Situ					_	<u> </u>	<u>-</u>	<u> </u>		4,560
SP-38 @ 1'	1'	4/11/2018	In-Situ	-	-	_	_		l -	l -	_	-	8,800
SP-38 @ 10'	10'	4/11/2018	In-Situ	_	_	_	_	_	_	_	_	_	1,650
			5.1.3	<u> </u>									.,,,,,
SP-39 @ 4'	4'	4/11/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	15,600
SP-39 @ 10'	10'	4/11/2018	In-Situ	-	-	-	-	-	-	-	-	-	7,000
, in the second													
SP-40 @ 1'	1'	4/11/2018	In-Situ	-	-	-	-	-	-	-	-	-	2,160
SP-40 @ 10'	10'	4/11/2018	In-Situ	-	-	-	-	_	-		-	-	960

		I CAMDIE I		METHOD: EPA SW 846-8021B, 5030						METHO	D: 8015M		300
SAMPLE LOCATION	SAMPLE DEPTH (BGS)			BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C <sub>6</sub> -C <sub>12</sub> (mg/Kg)	DRO C <sub>12</sub> -C <sub>28</sub> (mg/Kg)	EXT DRO C <sub>28</sub> -C <sub>35</sub> (mg/Kg)	TPH C <sub>6</sub> -C <sub>35</sub> (mg/Kg)	CHLORIDE (mg/Kg)
NMOCD Recommended	Remediation	Action Levels	s (RRALs)	10	NE	NE	NE	50	NE	NE	NE	1,000	600
00.44.0.41		1/10/0010	1 0"	1	1	ı			ı		ı		
SP-41 @ 1'	1'	4/12/2018	In-Situ	-	-	-	-	-	-	-	-	-	1,600
SP-41 @ 5'	5'	4/12/2018	In-Situ	-		-	-	-	_	-	_	-	368
SP-42 @ 1'	1'	4/12/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2,600
SP-42 @ 6'	6'	4/12/2018	In-Situ	-	-	-	- 40.150	-	- 10.0	- 10.0	- 10.0	- 10.0	384
01 42 @ 0		4/ 12/2010	III-Oitu			_							004
SP-43 @ 1'	1'	4/12/2018	In-Situ	-	-	-	-	-	-	-	-	-	2,520
SP-43 @ 10'	10'	4/12/2018	In-Situ	-	-	-	-	-	-	-	-	-	3,120
Ŭ	•			•	•								
SP-44 @ 1'	1'	4/12/2018	In-Situ	-	-	-	-	-	-	-	-	-	2,280
SP-44 @ 7'	7'	4/12/2018	In-Situ	-	-	-	-	-	-	-	-	-	304
SP-45 @ 1'	1'	4/12/2018	In-Situ	-	-	-	-	-	-	-	-	-	864
SP-45 @ 3'	3'	4/12/2018	In-Situ	-	-	-	-	-	-	-	-	-	224
								1	1	<u> </u>	1	1	
SP-46 @ 1'	1'	4/12/2018	In-Situ	-	-	-	-	-		-		-	160
00.47.0.41	1 41	4/40/0040	1 0"		1	ı			ı		ı	ı	0.400
SP-47 @ 1'	1'	4/13/2018	In-Situ	-	-	-	-	-	-	-	-	-	2,160
SP-47 @ 10'	10'	4/13/2018	In-Situ	-	<u> </u>	-	-	-	-	-	-	-	1,090
SP-48 @ 1'	1'	4/13/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	6,320
SP-48 @ 10'	10'	4/13/2018	In-Situ			-0.030	-0.130	-0.500	-10.0	-10.0	- 10.0	-10.0	5,200
01 -40 @ 10	10	4/13/2010	III-Oitu	_		_	-	_	_	_	_	_	3,200
SP-49 @ 1'	1'	4/13/2018	In-Situ	T -	-	-	-	-	l -	-	-	-	8,000
SP-49 @ 10'	10'	4/13/2018	In-Situ	-	-	-	-	-	-	-	-	-	1,200
SP-50 @ 1'	1'	4/13/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	67.8	58.0	126	7,360
SP-50 @ 10'	10'	4/13/2018	In-Situ	-	-	-		-	-	-	-	-	3,160
SP-51 @ 1'	1'	4/13/2018	In-Situ	-	-	-	-	-	-	-	-	-	2,000
SP-51 @ 10'	10'	4/13/2018	In-Situ	-	-	-	-	_	_	-	-	-	1,020

OXY USA, INC.
DORSTATE SWD
EDDY COUNTY, NEW MEXICO
NMOCD REFERENCE #: 2RP-4364

	I DEPTH I			IV	IETHOD: EF	PA SW 846-8	021B, 5030			METHO	D: 8015M		300
SAMPLE LOCATION		SAMPLE DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C <sub>6</sub> -C <sub>12</sub> (mg/Kg)	DRO C <sub>12</sub> -C <sub>28</sub> (mg/Kg)	EXT DRO C <sub>28</sub> -C <sub>35</sub> (mg/Kg)	TPH C <sub>6</sub> -C <sub>35</sub> (mg/Kg)	CHLORIDE (mg/Kg)
NMOCD Recommended	Remediation	Action Level	s (RRALs)	10	NE	NE	NE	50	NE	NE	NE	1,000	600
SP-52 @ 1'	1'	4/13/2018	In-Situ	-	-	-	-	-	-	-	-	-	2,640
SP-52 @ 10'	10'	4/13/2018	In-Situ	-	-	-	-	-	-	-	-	-	528
SP-53 @ 1'	1'	4/13/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	13.8	<10.0	13.8	5,280
SP-53 @ 10'	10'	4/13/2018	In-Situ	-	-	-	-	-	-	-	-	-	784

NE = Not established

- = Not analyzed

Concentrations in BOLD exceed NMOCD RRALs



Dorstate SWD - Release Site (Looking Northwest)



Dorstate SWD - Release Site (Looking North-Northeast



Dorstate SWD – Release Site (Looking Northwest)



Dorstate SWD – Release Site (Looking North-Northwest)



Dorstate SWD – Release Site (Looking Northeast)



 $Dorstate\ SWD-Release\ Site\ (Looking\ Northwest)$ 



Dorstate SWD - Release Site (Looking North)



Dorstate SWD – Release Site (Looking West)



Dorstate SWD – Release Site (Looking West)



 $Dorstate\ SWD-Release\ Site\ (Looking\ Northwest)$ 



Dorstate SWD – Release Site (Looking North)



Dorstate SWD – Release Site (Looking Northeast)



Dorstate SWD – Release Site (Looking Northwest)



Dorstate SWD – Release Site (Looking North)



Dorstate SWD – Release Site (Looking North)



 $Dorstate\ SWD-Release\ Site\ (Looking\ Southwest)$ 



Dorstate SWD – Release Site (Looking Northeast)



Dorstate SWD – Release Site (Looking Northwest)



Dorstate SWD – Release Site (Looking West-Northwest)



Dorstate SWD – Release Site (Looking West-Northwest)

### NM OIL CONSERVATION

ARTESIA DISTRICT

District 1
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

AUG 29 2017

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit I Copy to appropriate District Office in RECEIVEB cordance with 19.15.29 NMAC.

Release Notification and Corrective Action										
NAB1724135283 198682	OPERATOR   Initial Report   Final Report									
Name of Company Cambrian Management, Ltd.	Contact Mike Anthony									
Address PD Box 272, Midland, TX 74702	Telephone No. 439-631-4398									
Facility Name Trocstate SWO	Facility Type Swb									
Surface Owner Mineral Owner	API No. 30-015-23728									
LOCATION OF RELEASE										
Unit Letter   Section   Township   Range   Feet from the   Nor	th/South Line   Feet from the   East/West Line   County									
H 27 255 28E 1980 N	10rth 660 East Edy									
Latitude 32, 102 684 Longitude 104, 068565 NAD83										
NATUR	E OF RELEASE									
Type of Release Water, Produced Water	Volume of Release 25 bbls Volume Recovered D									
Source of Release	Date and Hour of Occurrence Date and Hour of Discovery 8-93-17									
Was Immediate Notice Given?  ☐ Yes 🂢 No ☐ Not Require	d If YES, To Whom?									
By Whom?	Date and Hour									
Was a Watercourse Reached?  ☐ Yes ☑ No	If YES, Volume Impacting the Watercourse.									
If a Watercourse was Impacted, Describe Fully.*										
Describe Cause of Problem and Remedial Action Taken.*										
Overflowing sumps due to truck drivers in	attention and excess rainwater.									
	mental and proceed with proper remediation and cleanup									
Describe Area Affected and Cleanup Action Taken.*	were at brocas roun broke terminany at occurs									
Pasture land and SWD location										
	the best of my knowledge and understand that pursuant to NMOCD rules and									
	e notifications and perform corrective actions for releases which may endanger the NMOCD marked as "Final Report" does not relieve the operator of liability									
should their operations have failed to adequately investigate and remed	iate contamination that pose a threat to ground water, surface water, human health									
or the environment. In addition, NMOCD acceptance of a C-141 repor	t does not relieve the operator of responsibility for compliance with any other									
federal, state, or local laws and/or regulations.	OH CONCEDIVATION DIVIGION									
	OIL CONSERVATION DIVISION									
Signature: Some Some	Signed Ry									
Printed Name: Denise Jones	Approved by Environmental Specialist & Branches									
Title: Regulatory Analyst	Approval Date: 8 20 117 Expiration Date:									
E-mail Address: dyone @ cambrian mant, com	Conditions of Approval:									
Date: 8-24-17 Phone: 430-430-9181	Sep) attached Attached 1864									
* Attach Additional Sheets If Necessary	I AM MILLIAM INC.									



April 11, 2018

**BEN ARGUIJO** 

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: DORSTATE SWD

Enclosed are the results of analyses for samples received by the laboratory on 04/04/18 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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:**

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO

Fax To: NONE

Reported: 11-Apr-18 15:38

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-1 @ 1'	H800935-01	Soil	29-Mar-18 10:00	04-Apr-18 16:30
SP-1 @ 5'	H800935-02	Soil	29-Mar-18 12:00	04-Apr-18 16:30
SP-1 @ 9'	H800935-03	Soil	29-Mar-18 14:50	04-Apr-18 16:30
SP-2 @ 1'	H800935-04	Soil	29-Mar-18 13:00	04-Apr-18 16:30
SP-3 @ 1'	H800935-05	Soil	29-Mar-18 13:40	04-Apr-18 16:30
SP-4 @ 1'	H800935-06	Soil	02-Apr-18 10:30	04-Apr-18 16:30
SP-4 @ 3'	H800935-07	Soil	02-Apr-18 11:00	04-Apr-18 16:30
SP-4 @ 5'	H800935-08	Soil	02-Apr-18 11:30	04-Apr-18 16:30
SP-4 @ 6'	H800935-09	Soil	02-Apr-18 12:00	04-Apr-18 16:30
SP-5 @ 1'	H800935-10	Soil	02-Apr-18 13:00	04-Apr-18 16:30
SP-5 @ 3'	H800935-11	Soil	02-Apr-18 13:15	04-Apr-18 16:30
SP-6 @ 1'	H800935-12	Soil	02-Apr-18 14:30	04-Apr-18 16:30
SP-7 @ 1'	H800935-13	Soil	02-Apr-18 14:50	04-Apr-18 16:30
SP-8 @ 1'	H800935-14	Soil	03-Apr-18 09:00	04-Apr-18 16:30
SP-9 @ 1'	H800935-15	Soil	03-Apr-18 09:10	04-Apr-18 16:30
SP-10 @ 1'	H800935-16	Soil	03-Apr-18 09:15	04-Apr-18 16:30
SP-11 @ 1'	H800935-17	Soil	03-Apr-18 09:20	04-Apr-18 16:30
SP-12 @ 1'	H800935-18	Soil	03-Apr-18 09:30	04-Apr-18 16:30
SP-12 @ 3'	H800935-19	Soil	03-Apr-18 10:10	04-Apr-18 16:30
SP-12 @ 5'	H800935-20	Soil	03-Apr-18 10:20	04-Apr-18 16:30
SP-13 @ 1'	H800935-21	Soil	03-Apr-18 10:40	04-Apr-18 16:30
SP-14 @ 1'	H800935-22	Soil	03-Apr-18 10:45	04-Apr-18 16:30
SP-15 @ 1'	H800935-23	Soil	03-Apr-18 10:50	04-Apr-18 16:30
SP-16 @ 1'	H800935-24	Soil	03-Apr-18 10:55	04-Apr-18 16:30
SP-17 @ 1'	H800935-25	Soil	03-Apr-18 11:00	04-Apr-18 16:30
SP-18 @ 1'	H800935-26	Soil	03-Apr-18 11:05	04-Apr-18 16:30
SP-19 @ 1'	H800935-27	Soil	03-Apr-18 11:10	04-Apr-18 16:30

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Analytical Results For:**

TRINITY OILFIELD SERV P. O. BOX 2587 HOBBS NM, 88241	/ICES & RENTALS, LLC	Project: Project Number: Project Manager: Fax To:	BEN ARGUIJO	Reported: 11-Apr-18 15:38
SP-20 @ 1'	H800935-28	Soil	03-Apr-18 11:15	04-Apr-18 16:30
SP-21 @ 1'	H800935-29	Soil	03-Apr-18 11:20	04-Apr-18 16:30
SP-22 @ 1'	H800935-30	Soil	03-Apr-18 11:25	04-Apr-18 16:30
SP-23 @ 1'	H800935-31	Soil	03-Apr-18 11:30	04-Apr-18 16:30
SP-24 @ 1'	H800935-32	Soil	03-Apr-18 11:35	04-Apr-18 16:30
SP-25 @ 1'	H800935-33	Soil	03-Apr-18 11:40	04-Apr-18 16:30
SP-26 @ 1'	H800935-34	Soil	03-Apr-18 11:50	04-Apr-18 16:30
SP-27 @ 1'	H800935-35	Soil	03-Apr-18 11:55	04-Apr-18 16:30
SP-28 @ 1'	H800935-36	Soil	03-Apr-18 12:00	04-Apr-18 16:30

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN Project Manager: BEN ARGUIJO

Fax To: NONE

Reported: 11-Apr-18 15:38

#### SP-1 @ 1' H800935-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			103 %	72-	148	8040505	MS	05-Apr-18	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040603	MS	06-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040603	MS	06-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040603	MS	06-Apr-18	8015B	
Surrogate: 1-Chlorooctane			80.6 %	41-	142	8040603	MS	06-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			69.2 %	37.6-	-147	8040603	MS	06-Apr-18	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	4030		100	mg/kg wet	100	B804052	JDA	06-Apr-18	EPA300.0	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

11-Apr-18 15:38



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

### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO

Fax To: NONE

SP-1 @ 5' H800935-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			104 %	72-1	48	8040505	MS	05-Apr-18	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040603	MS	06-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040603	MS	06-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040603	MS	06-Apr-18	8015B	
Surrogate: 1-Chlorooctane			82.4 %	41-1	42	8040603	MS	06-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			72.1 %	37.6-	147	8040603	MS	06-Apr-18	8015B	
			Green Analy	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	2120		100	mg/kg wet	100	B804052	JDA	06-Apr-18	EPA300.0	

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Celey D. Keene



# Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO Fax To: NONE

Reported: 11-Apr-18 15:38

Tax To. NONE

SP-1 @ 9' H800935-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			104 %	72-1	48	8040505	MS	05-Apr-18	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040603	MS	06-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040603	MS	06-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040603	MS	06-Apr-18	8015B	
Surrogate: 1-Chlorooctane			83.6 %	41-1	42	8040603	MS	06-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			75.0 %	37.6-	147	8040603	MS	06-Apr-18	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	1610		100	mg/kg wet	100	B804052	JDA	06-Apr-18	EPA300.0	

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11-Apr-18 15:38



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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO

Fax To: NONE

SP-2 @ 1' H800935-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds by l	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	72-1	48	8040505	MS	05-Apr-18	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040603	MS	06-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040603	MS	06-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040603	MS	06-Apr-18	8015B	
Surrogate: 1-Chlorooctane			82.8 %	41-1	42	8040603	MS	06-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			74.4 %	37.6-	147	8040603	MS	06-Apr-18	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	55.7		10.0	mg/kg wet	10	B804052	JDA	06-Apr-18	EPA300.0	

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11-Apr-18 15:38



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

# Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO

Fax To: NONE

SP-3 @ 1' H800935-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds by 1	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			104 %	72-	148	8040505	MS	05-Apr-18	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040603	MS	06-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040603	MS	06-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040603	MS	06-Apr-18	8015B	
Surrogate: 1-Chlorooctane			85.7 %	41-	142	8040603	MS	06-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			76.2 %	37.6	-147	8040603	MS	06-Apr-18	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	75.1		50.0	mg/kg wet	50	B804052	JDA	06-Apr-18	EPA300.0	

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



# Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO

Fax To: NONE

Reported: 11-Apr-18 15:38

# SP-4 @ 1' H800935-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Volatile Organic Compounds by 1	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	72-1	148	8040505	MS	05-Apr-18	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040603	MS	07-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040603	MS	07-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040603	MS	07-Apr-18	8015B	
Surrogate: 1-Chlorooctane			80.2 %	41-1	142	8040603	MS	07-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			70.0 %	37.6-	147	8040603	MS	07-Apr-18	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	4740		100	mg/kg wet	100	B804052	JDA	06-Apr-18	EPA300.0	

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keine

11-Apr-18 15:38



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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO

Fax To: NONE

SP-4 @ 3' H800935-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds by 1	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	72-1	48	8040505	MS	05-Apr-18	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040603	MS	07-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040603	MS	07-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040603	MS	07-Apr-18	8015B	
Surrogate: 1-Chlorooctane			82.4 %	41-1	42	8040603	MS	07-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			68.9 %	37.6-	147	8040603	MS	07-Apr-18	8015B	
			Green Anal	ytical Labo	oratories					
Soluble (DI Water Extraction)										
Chloride	1860		100	mg/kg wet	100	B804052	JDA	06-Apr-18	EPA300.0	

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11-Apr-18 15:38



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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO

Fax To: NONE

SP-4 @ 5'

H800935-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborato	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	72-1	48	8040505	MS	05-Apr-18	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040603	MS	07-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040603	MS	07-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040603	MS	07-Apr-18	8015B	
Surrogate: 1-Chlorooctane			86.1 %	41-1	42	8040603	MS	07-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			71.8 %	37.6-	147	8040603	MS	07-Apr-18	8015B	
			Green Anal	ytical Labo	oratories					
Soluble (DI Water Extraction)										
Chloride	850		50.0	mg/kg wet	50	B804052	JDA	06-Apr-18	EPA300.0	

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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO

Fax To: NONE

Reported: 11-Apr-18 15:38

SP-4 @ 6' H800935-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds by 1	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040505	MS	11-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040505	MS	11-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040505	MS	11-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040505	MS	11-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040505	MS	11-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			96.3 %	72-1	48	8040505	MS	11-Apr-18	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040603	MS	07-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040603	MS	07-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040603	MS	07-Apr-18	8015B	
Surrogate: 1-Chlorooctane			86.8 %	41-1	42	8040603	MS	07-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			70.2 %	37.6-	147	8040603	MS	07-Apr-18	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	758		50.0	mg/kg wet	50	B804052	JDA	06-Apr-18	EPA300.0	

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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO Fax To: NONE

Reported: 11-Apr-18 15:38

SP-5 @ 1'

H800935-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	72-1	48	8040505	MS	05-Apr-18	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			78.8 %	41-1	42	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			84.0 %	37.6-	147	8040901	MS	10-Apr-18	8015B	
			Green Anal	ytical Labo	oratories					
Soluble (DI Water Extraction)										
Chloride	4800		100	mg/kg wet	100	B804052	JDA	06-Apr-18	EPA300.0	

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# **Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO Fax To: NONE

Reported: 11-Apr-18 15:38

SP-5 @ 3' H800935-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Volatile Organic Compounds by 1	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			102 %	72-	148	8040505	MS	05-Apr-18	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			87.3 %	41-	142	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			86.6 %	37.6-	-147	8040901	MS	10-Apr-18	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	3900		100	mg/kg wet	100	B804052	JDA	06-Apr-18	EPA300.0	

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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO

Fax To: NONE

SP-6 @ 1' H800935-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Volatile Organic Compounds by 1	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			103 %	72-	148	8040505	MS	05-Apr-18	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			80.9 %	41-	142	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			77.8 %	37.6-	-147	8040901	MS	10-Apr-18	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	38.3		10.0	mg/kg wet	10	B804052	JDA	06-Apr-18	EPA300.0	

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# Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO

Fax To: NONE

Reported: 11-Apr-18 15:38

SP-7 @ 1' H800935-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			103 %	72-	148	8040505	MS	05-Apr-18	8021B	
Petroleum Hydrocarbons by GO	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			84.2 %	41-	142	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			82.2 %	37.6-	-147	8040901	MS	10-Apr-18	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	98.4		10.0	mg/kg wet	10	B804052	JDA	06-Apr-18	EPA300.0	

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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO

Fax To: NONE

SP-8 @ 1' H800935-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborato	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			104 %	72-1	48	8040505	MS	05-Apr-18	8021B	
Petroleum Hydrocarbons by GO	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			88.6 %	41-1	42	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			88.0 %	37.6-	147	8040901	MS	10-Apr-18	8015B	
			Green Anal	ytical Labo	oratories					
Soluble (DI Water Extraction)										
Chloride	8070		200	mg/kg wet	200	B804052	JDA	07-Apr-18	EPA300.0	

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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN Project Manager: BEN ARGUIJO

Fax To: NONE

Reported: 11-Apr-18 15:38

SP-9 @ 1'

H800935-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborato	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			104 %	72-1	48	8040505	MS	05-Apr-18	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			85.9 %	41-1	42	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			84.3 %	37.6-	147	8040901	MS	10-Apr-18	8015B	
			Green Anal	ytical Labo	oratories					
Soluble (DI Water Extraction)										
Chloride	119		10.0	mg/kg wet	10	B804052	JDA	06-Apr-18	EPA300.0	

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# Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN Project Manager: BEN ARGUIJO

Fax To: NONE

Reported: 11-Apr-18 15:38

SP-10 @ 1'

H800935-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	72	148	8040505	MS	05-Apr-18	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			87.3 %	41-	142	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			85.2 %	37.6	-147	8040901	MS	10-Apr-18	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	35.6		10.0	mg/kg wet	10	B804052	JDA	06-Apr-18	EPA300.0	

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11-Apr-18 15:38



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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO

Fax To: NONE

SP-11 @ 1' H800935-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborato	ories					
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			104 %	72-1	48	8040505	MS	05-Apr-18	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	29.7		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			88.6 %	41-1	42	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			89.7 %	37.6-	147	8040901	MS	10-Apr-18	8015B	
			Green Anal	ytical Labo	oratories					
Soluble (DI Water Extraction)										
Chloride	5040		100	mg/kg wet	100	B804052	JDA	06-Apr-18	EPA300.0	

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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO

Fax To: NONE

Reported: 11-Apr-18 15:38

SP-12 @ 1' H800935-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	72-1	148	8040505	MS	05-Apr-18	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			79.0 %	41-1	142	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			75.2 %	37.6-	147	8040901	MS	10-Apr-18	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	1450		50.0	mg/kg wet	50	B804052	JDA	06-Apr-18	EPA300.0	

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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO

Fax To: NONE

Reported: 11-Apr-18 15:38

SP-12 @ 3' H800935-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Volatile Organic Compounds by l	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	72-1	148	8040505	MS	05-Apr-18	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			89.4 %	41-1	142	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			95.0 %	37.6-	147	8040901	MS	10-Apr-18	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	2460		100	mg/kg wet	100	B804052	JDA	07-Apr-18	EPA300.0	

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# Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO

Fax To: NONE

Reported: 11-Apr-18 15:38

SP-12 @ 5' H800935-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds by	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	72-	148	8040505	MS	05-Apr-18	8021B	
Petroleum Hydrocarbons by Go	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			91.5 %	41-	142	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			98.9 %	37.6-	-147	8040901	MS	10-Apr-18	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	1180		50.0	mg/kg wet	50	B804052	JDA	07-Apr-18	EPA300.0	

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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO

Fax To: NONE

SP-13 @ 1' H800935-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040506	MS	05-Apr-18	8021B	QR-03
Toluene*	< 0.050		0.050	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040506	MS	05-Apr-18	8021B	QR-03
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			108 %	72-1	48	8040506	MS	05-Apr-18	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			89.6 %	41-1	42	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			97.0 %	37.6-	147	8040901	MS	10-Apr-18	8015B	
			Green Anal	ytical Labo	oratories					
Soluble (DI Water Extraction)										
Chloride	2600		100	mg/kg wet	100	B804053	JDA	07-Apr-18	EPA300.0	

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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO

Fax To: NONE

SP-14 @ 1' H800935-22 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborato	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			109 %	72-1	48	8040506	MS	05-Apr-18	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			91.2 %	41-1	42	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			98.6 %	37.6-	147	8040901	MS	10-Apr-18	8015B	
			Green Anal	ytical Labo	oratories					
Soluble (DI Water Extraction)										
Chloride	9180		200	mg/kg wet	200	B804053	JDA	07-Apr-18	EPA300.0	

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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO

Fax To: NONE

SP-15 @ 1' H800935-23 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			107 %	72-1	148	8040506	MS	05-Apr-18	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	37.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	11.5		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			96.4 %	41-1	142	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			108 %	37.6-	.147	8040901	MS	10-Apr-18	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	5240		200	mg/kg wet	200	B804053	JDA	07-Apr-18	EPA300.0	

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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO

Fax To: NONE

Reported: 11-Apr-18 15:38

SP-16 @ 1' H800935-24 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			108 %	72-	148	8040506	MS	05-Apr-18	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			88.3 %	41-	142	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			95.7 %	37.6-	-147	8040901	MS	10-Apr-18	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	269		200	mg/kg wet	200	B804053	JDA	07-Apr-18	EPA300.0	

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# Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO

Fax To: NONE

Reported: 11-Apr-18 15:38

SP-17 @ 1' H800935-25 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborato	ories					
Volatile Organic Compounds by 1	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			107 %	72-1	48	8040506	MS	06-Apr-18	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			93.8 %	41-1	42	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			96.2 %	37.6-	147	8040901	MS	10-Apr-18	8015B	
			Green Anal	ytical Labo	oratories					
Soluble (DI Water Extraction)										
Chloride	1710		200	mg/kg wet	200	B804053	JDA	07-Apr-18	EPA300.0	

Cardinal Laboratories \*=Accredited Analyte

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11-Apr-18 15:38



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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO

Fax To: NONE

SP-18 @ 1' H800935-26 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			107 %	72-1	48	8040506	MS	06-Apr-18	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			93.8 %	41-1	42	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			97.4 %	37.6-	147	8040901	MS	10-Apr-18	8015B	
			Green Anal	ytical Labo	oratories					
Soluble (DI Water Extraction)										
Chloride	3130		100	mg/kg wet	100	B804053	JDA	07-Apr-18	EPA300.0	

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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO

Fax To: NONE

SP-19 @ 1' H800935-27 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			106 %	72-1	48	8040506	MS	06-Apr-18	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			86.3 %	41-1	42	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			91.1 %	37.6-	147	8040901	MS	10-Apr-18	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	1150		200	mg/kg wet	200	B804053	JDA	07-Apr-18	EPA300.0	

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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO

Fax To: NONE

SP-20 @ 1' H800935-28 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborato	ories					
Volatile Organic Compounds by 1	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			109 %	72-1	48	8040506	MS	06-Apr-18	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			86.5 %	41-1	42	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			94.7 %	37.6-	147	8040901	MS	10-Apr-18	8015B	
			Green Anal	ytical Labo	oratories					
Soluble (DI Water Extraction)										
Chloride	31.0		10.0	mg/kg wet	10	B804053	JDA	07-Apr-18	EPA300.0	

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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO Fax To: NONE

Reported: 11-Apr-18 15:38

SP-21 @ 1' H800935-29 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					

		Cardina	l Laborator	ies				
Volatile Organic Compounds by	y EPA Method 8021							
Benzene*	< 0.050	0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B
Toluene*	< 0.050	0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B
Ethylbenzene*	< 0.050	0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B
Total Xylenes*	< 0.150	0.150	mg/kg	50	8040506	MS	06-Apr-18	8021B
Total BTEX	< 0.300	0.300	mg/kg	50	8040506	MS	06-Apr-18	8021B
Surrogate: 4-Bromofluorobenzene (PID)		109 %	72-14	8	8040506	MS	06-Apr-18	8021B
Petroleum Hydrocarbons by G	C FID							
GRO C6-C10*	<10.0	10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B
Surrogate: 1-Chlorooctane		90.8 %	41-14.	2	8040901	MS	10-Apr-18	8015B
Surrogate: 1-Chlorooctadecane		98.9 %	37.6-1	17	8040901	MS	10-Apr-18	8015B

#### **Green Analytical Laboratories**

Soluble (DI Water Extraction)								
Chloride	<50.0	50.0	mg/kg wet	50	B804053	JDA	07-Apr-18	EPA300.0

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11-Apr-18 15:38



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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO

Fax To: NONE

SP-22 @ 1'

H800935-30 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	72-	148	8040506	MS	06-Apr-18	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			84.3 %	41-	142	8040902	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			70.1 %	37.6-	147	8040902	MS	10-Apr-18	8015B	
			Green Analy	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	16.0		10.0	mg/kg wet	10	B804053	JDA	07-Apr-18	EPA300.0	

Soluble (BI Water Extraction)								
Chloride	16.0	10.0	mg/kg wet	10	B804053	JDA	07-Apr-18	EPA300.0

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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO

Fax To: NONE

Reported: 11-Apr-18 15:38

SP-23 @ 1'

H800935-31 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			108 %	72-1	'48	8040506	MS	06-Apr-18	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			87.2 %	41-1	42	8040902	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			71.8 %	37.6-	147	8040902	MS	10-Apr-18	8015B	
			Green Anal	ytical Labo	oratories					
Soluble (DI Water Extraction)										
Chloride	37.9		10.0	mg/kg wet	10	B804053	JDA	07-Apr-18	EPA300.0	

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# Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO

Fax To: NONE

Reported: 11-Apr-18 15:38

SP-24 @ 1' H800935-32 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Volatile Organic Compounds by l	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			108 %	72-1	148	8040506	MS	06-Apr-18	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			87.5 %	41-1	142	8040902	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			71.8 %	37.6-	147	8040902	MS	10-Apr-18	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	20.5		10.0	mg/kg wet	10	B804053	JDA	07-Apr-18	EPA300.0	

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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO

Fax To: NONE

Reported: 11-Apr-18 15:38

SP-25 @ 1' H800935-33 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds by 1	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			109 %	72-	148	8040506	MS	06-Apr-18	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			93.2 %	41-	142	8040902	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			78.5 %	37.6-	-147	8040902	MS	10-Apr-18	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	2390		200	mg/kg wet	200	B804053	JDA	07-Apr-18	EPA300.0	

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Celey D. Keene

11-Apr-18 15:38



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

### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO

Fax To: NONE

SP-26 @ 1' H800935-34 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborato	ories					
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			108 %	72-1	48	8040506	MS	06-Apr-18	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			94.7 %	41-1	42	8040902	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			81.1 %	37.6-	147	8040902	MS	10-Apr-18	8015B	
			Green Anal	ytical Labo	oratories					
Soluble (DI Water Extraction)										
Chloride	292		10.0	mg/kg wet	10	B804053	JDA	07-Apr-18	EPA300.0	

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Celeg D. Keene



### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO Fax To: NONE

Reported: 11-Apr-18 15:38

SP-27 @ 1'

H800935-35 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			104 %	72-1	148	8040506	MS	06-Apr-18	8021B	
Petroleum Hydrocarbons by Go	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
DRO >C10-C28*	35.7		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	24.9		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			91.9 %	41-1	142	8040902	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			94.9 %	37.6-	147	8040902	MS	10-Apr-18	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	931		200	mg/kg wet	200	B804053	JDA	07-Apr-18	EPA300.0	

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Celey D. Keene

11-Apr-18 15:38



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

### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO

Fax To: NONE

SP-28 @ 1' H800935-36 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			110 %	72-1	148	8040506	MS	06-Apr-18	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			93.0 %	41-	142	8040902	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			89.6 %	37.6-	147	8040902	MS	10-Apr-18	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	945		200	mg/kg wet	200	B804053	JDA	07-Apr-18	EPA300.0	

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Celey D. Keene



# **Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO Fax To: NONE

Reported: 11-Apr-18 15:38

#### Volatile Organic Compounds by EPA Method 8021 - Quality Control

#### **Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
	Result	Limit	Omis	Level	Result	/UKLC	Limito	МЪ	Limit	110103	
Batch 8040505 - Volatiles											
Blank (8040505-BLK1)	Prepared & Analyzed: 05-Apr-18										
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)	0.103		mg/kg	0.100		103	72-148				
LCS (8040505-BS1)	Prepared & Analyzed: 05-Apr-18										
Benzene	2.14	0.050	mg/kg	2.00		107	79.5-124				
Toluene	2.11	0.050	mg/kg	2.00		106	75.5-127				
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	77.7-125				
Total Xylenes	6.59	0.150	mg/kg	6.00		110	70.9-124				
Surrogate: 4-Bromofluorobenzene (PID)	0.101		mg/kg	0.100		101	72-148				
LCS Dup (8040505-BSD1)	Prepared & Analyzed: 05-Apr-18										
Benzene	2.09	0.050	mg/kg	2.00		105	79.5-124	2.15	6.5		
Toluene	2.08	0.050	mg/kg	2.00		104	75.5-127	1.45	7.02		
Ethylbenzene	2.09	0.050	mg/kg	2.00		104	77.7-125	1.57	7.83		
Total Xylenes	6.48	0.150	mg/kg	6.00		108	70.9-124	1.75	7.78		
Surrogate: 4-Bromofluorobenzene (PID)	0.103		mg/kg	0.100		103	72-148				
Batch 8040506 - Volatiles											
Blank (8040506-BLK1)	Prepared & Analyzed: 05-Apr-18										
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)	0.107		mg/kg	0.100		107	72-148				

#### Cardinal Laboratories

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN Project Manager: BEN ARGUIJO

Fax To: NONE

Reported: 11-Apr-18 15:38

### 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 8040506 - Volatiles										
LCS (8040506-BS1)				Prepared &	Analyzed:	05-Apr-18	1			
Benzene	1.79	0.050	mg/kg	2.00		89.5	79.5-124			
Toluene	1.87	0.050	mg/kg	2.00		93.4	75.5-127			
Ethylbenzene	1.87	0.050	mg/kg	2.00		93.7	77.7-125			
Total Xylenes	5.58	0.150	mg/kg	6.00		93.0	70.9-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.107		mg/kg	0.100		107	72-148			
LCS Dup (8040506-BSD1)				Prepared &	Analyzed:	05-Apr-18	1			
Benzene	1.76	0.050	mg/kg	2.00		88.1	79.5-124	1.55	6.5	
Toluene	1.83	0.050	mg/kg	2.00		91.5	75.5-127	2.07	7.02	
Ethylbenzene	1.84	0.050	mg/kg	2.00		92.1	77.7-125	1.78	7.83	
Total Xylenes	5.48	0.150	mg/kg	6.00		91.3	70.9-124	1.83	7.78	
Surrogate: 4-Bromofluorobenzene (PID)	0.108		mg/kg	0.100		108	72-148		-	

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Celey D. Keene



### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO

Fax To: NONE

Reported: 11-Apr-18 15:38

### Petroleum Hydrocarbons by GC FID - Quality Control

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 8040	ous - Generai I	Prep - Organics

Blank (8040603-BLK1)				Prepared & Anal	lyzed: 06-Apr-18				
GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C35	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Total TPH C6-C28	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	46.5		mg/kg	50.0	92.9	41-142			
Surrogate: 1-Chlorooctadecane	43.0		mg/kg	50.0	86.0	37.6-147			
LCS (8040603-BS1)				Prepared & Anal	lyzed: 06-Apr-18				
GRO C6-C10	213	10.0	mg/kg	200	106	76.5-133			
DRO >C10-C28	214	10.0	mg/kg	200	107	72.9-138			
Total TPH C6-C28	427	10.0	mg/kg	400	107	78-132			
Surrogate: 1-Chlorooctane	47.1		mg/kg	50.0	94.2	41-142			
Surrogate: 1-Chlorooctadecane	46.2		mg/kg	50.0	92.4	37.6-147			
LCS Dup (8040603-BSD1)				Prepared & Anal	lyzed: 06-Apr-18				
GRO C6-C10	218	10.0	mg/kg	200	109	76.5-133	2.47	20.6	
DRO >C10-C28	214	10.0	mg/kg	200	107	72.9-138	0.117	20.6	
Total TPH C6-C28	432	10.0	mg/kg	400	108	78-132	1.30	18	
Surrogate: 1-Chlorooctane	48.3		mg/kg	50.0	96.6	41-142			
Surrogate: 1-Chlorooctadecane	45.9		mg/kg	50.0	91.8	37.6-147			

### **Batch 8040901 - General Prep - Organics**

Blank (8040901-BLK1)				Prepared: 09-Ap	r-18 Analyzed: 1	0-Apr-18	
GRO C6-C10	ND	10.0	mg/kg				
DRO >C10-C28	ND	10.0	mg/kg				
EXT DRO >C28-C35	ND	10.0	mg/kg				
EXT DRO >C28-C36	ND	10.0	mg/kg				
Total TPH C6-C28	ND	10.0	mg/kg				
Surrogate: 1-Chlorooctane	47.3		mg/kg	50.0	94.6	41-142	
Surrogate: 1-Chlorooctadecane	46.6		mg/kg	50.0	93.1	37.6-147	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO Fax To: NONE

Reported: 11-Apr-18 15:38

### Petroleum Hydrocarbons by GC FID - Quality Control

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 8040901 - General Prep - Organics										
LCS (8040901-BS1)				Prepared: 0	9-Apr-18 A	nalyzed: 1	0-Apr-18			
GRO C6-C10	216	10.0	mg/kg	200		108	76.5-133			
DRO >C10-C28	229	10.0	mg/kg	200		114	72.9-138			
Total TPH C6-C28	445	10.0	mg/kg	400		111	78-132			
Surrogate: 1-Chlorooctane	47.2		mg/kg	50.0		94.4	41-142			
Surrogate: 1-Chlorooctadecane	46.8		mg/kg	50.0		93.6	37.6-147			
LCS Dup (8040901-BSD1)				Prepared: 0	9-Apr-18 A	nalyzed: 1	0-Apr-18			
GRO C6-C10	204	10.0	mg/kg	200		102	76.5-133	5.65	20.6	
DRO >C10-C28	206	10.0	mg/kg	200		103	72.9-138	10.2	20.6	
Total TPH C6-C28	411	10.0	mg/kg	400		103	78-132	7.98	18	
Surrogate: 1-Chlorooctane	48.1		mg/kg	50.0		96.2	41-142			
Surrogate: 1-Chlorooctadecane	46.9		mg/kg	50.0		93.7	37.6-147			
Batch 8040902 - General Prep - Organics										
Blank (8040902-BLK1)				Prepared: 0	9-Apr-18 A	nalyzed: 1	0-Apr-18			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
EXT DRO >C28-C36										
	ND	10.0	mg/kg							
Total TPH C6-C28	ND ND	10.0 10.0	mg/kg mg/kg							
Total TPH C6-C28 Surrogate: 1-Chlorooctane				50.0		92.0	41-142			
Surrogate: 1-Chlorooctane	ND		mg/kg	50.0 50.0		92.0 85.1	41-142 37.6-147			
	ND 46.0		mg/kg mg/kg		99-Apr-18 A	85.1	37.6-147			
Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane	ND 46.0		mg/kg mg/kg	50.0	99-Apr-18 A	85.1	37.6-147			
Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane LCS (8040902-BS1)	ND 46.0 42.6	10.0	mg/kg mg/kg mg/kg	50.0 Prepared: 0	9-Apr-18 A	85.1 .nalyzed: 1	37.6-147 0-Apr-18			
Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane LCS (8040902-BS1) GRO C6-C10	ND 46.0 42.6	10.0	mg/kg mg/kg mg/kg	50.0 Prepared: 0 200	99-Apr-18 A	85.1 nalyzed: 1 106	37.6-147 0-Apr-18 76.5-133			
Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane  LCS (8040902-BS1)  GRO C6-C10  DRO >C10-C28	ND 46.0 42.6 211 178	10.0 10.0 10.0	mg/kg mg/kg mg/kg mg/kg	50.0 Prepared: 0 200 200	99-Apr-18 A	85.1 nalyzed: 1 106 89.1	37.6-147 0-Apr-18 76.5-133 72.9-138			

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



%REC

Limits

RPD

### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241

Analyte

Project: DORSTATE SWD

Spike

Level

Source

Result

%REC

Project Number: NONE GIVEN Project Manager: BEN ARGUIJO

Fax To: NONE

Reported: 11-Apr-18 15:38

RPD

Limit

Notes

### Petroleum Hydrocarbons by GC FID - Quality Control

### **Cardinal Laboratories**

Units

Reporting

Limit

Result

Batch 8040902 - General Prep - Org	anics								
LCS Dup (8040902-BSD1)				Prepared: 09-Ap	or-18 Analyzed: 1	10-Apr-18			
GRO C6-C10	222	10.0	mg/kg	200	111	76.5-133	4.74	20.6	
DRO >C10-C28	203	10.0	mg/kg	200	102	72.9-138	13.2	20.6	
Total TPH C6-C28	425	10.0	mg/kg	400	106	78-132	8.71	18	
Surrogate: 1-Chlorooctane	47.1		mg/kg	50.0	94.2	41-142			
Surrogate: 1-Chlorooctadecane	49.8		mg/kg	50.0	99.7	37.6-147			

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



%REC

### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: DORSTATE SWD

Project Number: NONE GIVEN

Project Manager: BEN ARGUIJO

Spike

Source

Fax To: NONE

Reported: 11-Apr-18 15:38

RPD

### Soluble (DI Water Extraction) - Quality Control

### **Green Analytical Laboratories**

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B804052 - General Prep - Wet Chem										
Blank (B804052-BLK1)				Prepared &	દ્રે Analyzed:	06-Apr-18				
Chloride	ND	10.0	mg/kg wet							
LCS (B804052-BS1)				Prepared 8	ർ Analyzed:	06-Apr-18				
Chloride	229	10.0	mg/kg wet	250		91.6	85-115			
LCS Dup (B804052-BSD1)				Prepared &	દ્રે Analyzed:	06-Apr-18				
Chloride	229	10.0	mg/kg wet	250		91.5	85-115	0.170	20	
Batch B804053 - General Prep - Wet Chem										
Blank (B804053-BLK1)				Prepared &	દ્રે Analyzed:	06-Apr-18				
Chloride	ND	10.0	mg/kg wet							
LCS (B804053-BS1)				Prepared &	k Analyzed:	06-Apr-18				
Chloride	227	10.0	mg/kg wet	250		90.9	85-115			
LCS Dup (B804053-BSD1)				Prepared &	ኔ Analyzed:	06-Apr-18				
Chloride	228	10.0	mg/kg wet	250		91.4	85-115	0.597	20	

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Celey D. Keine



### **Notes and Definitions**

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.

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 46 of 50

Page 47 of 50

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

101 East Mariand, Hobbs, NM 88240		Page 1 of 4
(575) 393-2326 FAX (575) 393-2476		- 280
Company Name: Trinity Oilfield Services & Rentals, LLC	BILL TO	ANALYSIS REQUEST
Project Manager: Ben J. Arguijo	P.O. #:	
Address: P.O. Box 2587	Compan; Trinity	

Company Name:	Trinity Oilfield Services & Rentals, LLC	s, LL	5								B	BILL TO				A	ANALYSIS	SIS I	REQU	REQUEST	
Project Manager:	: Ben J. Arguijo		•		-			7	P.O. #:	#							_				
Address: P.O.E	P.O. Box 2587							0	Compan	par	2	Trinity									
City: Hobbs	State: NM	Zip:		88241				Α	Attn:												
Phone #: (575)	(575)390-7208 <b>Fax #</b> :							Ν	Address	es:	,,										
Project #:	Project Owner:	er:	Ca	Cambrian	211			C	City:					)	)						
Project Name: [	Dorstate SWD							S	State:	**		Zip:	5M)	21B	300						
Project Location:	: Eddy Co., NM							ס	Phone #:	ne ‡	**		801	(80	de (						
Sampler Name: Tristan Payne	ristan Payne							TI	Fax #	##			Ή (	EX	lori						
FOR LAB USE ONLY					ž	MATRIX	×		공	ES	PRESERV	SAMPLING	TF	вт	Ch						
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE TIME								×	
1	SP-1 @ 1'	ഒ			×	۵.			$\Box$	×	•••••	3/29/18 1000	×	×	×						
2	SP-1 @ 5'	G	7		×	۵.,				×		3/29/18 1200	×	×	×						
3	SP-1 @ 9'	G	-7		×	<u></u>				×		3/29/18 1450	×	×	×						
4	SP-2 @ 1'	G	1		×	<u> </u>				×		3/29/18 1300	×	×	×						
Cr	SP-3 @ 1'	G	_>		×	۵.,				×		3/29/18 1340	×	×	×						
6	SP-4 @ 1'	G	_		×	۵				×		4/2/18 1030	×	×	×						
7	SP-4 @ 3'	ଜ	_		×	۵				~~~		4/2/18 1100	×	×	×						
8	SP-4 @ 5'	G	_		×					×		4/2/18 1130	×	×	×						
Q	SP-4 @ 6'	ឲ	_		×	<u></u>				×		4/2/18 1200	×	×	×			-			
6	SP-5 @ 1'	ה		1	×	-	~	~	T	×		4/2/18 1300	×	×	×			$\dashv$			

FORM-006 † Cardinal cannot accept verbal changes. Please fax written changes Revision 1.0	Sampler - UPS - Bus - Other: 5.24 5.152 Gres Pres	Time:	Relinquished By: / Date: Beceived By:	Time: 4: 36, Wal July Survisor	17.10	Relinquished By:   Date: 4, 4, 4   Received By:   Phone Result:   Yes   No
written changes to 575-393-2476		Please e-mail results to ben@trinityoilfieldservices.com & todd@trinityoilfieldservices.com		REMARKS:	Fax Result: ☐ Yes ☐ No {Add'I Fax #:	Phone Result: ☐ Yes ☐ No

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 4

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

Company Name: Project Manager:	:: Trinity Oilfield Services & Rentals, r: Ben J. Arguijo	als, LLC	***************************************	P.O. #:	BILL TO	_					AN	ANALYS	ANALYSIS R	ANALYSIS REQUEST
Address: P.O.	P.O. Box 2587			Compan	Trinity									
City: Hobbs	State: NM	Zip:	88241	Attn:										
Phone #: (575)	(575)390-7208 Fax #:			Address										
Project #:	Project Owner:		Cambrian	City:				_	_	_	_	_	_	_
Project Name:	Dorstate SWD			State:	Zip:		5M)		21B		21B	21B	21B	21B
Project Location:	n: Eddy Co., NM			Phone #:			901		(80	(80	(80	(80	(80	(80
Sampler Name: Tristan Payne	Tristan Payne			Fax #		CONT. 127			EX	EX	EX	EX	EX	EX
FOR LAB USE ONLY			MATRIX	PRESERV	RV SAMPLING				вт	вт	вт	вт	вт	вт
		.**************************************												
Lab I.D.	Sample I.D.	(G)RAB OR (C # CONTAINER	GROUNDWAT WASTEWATE SOIL OIL	SLUDGE OTHER : ACID/BASE: ICE / COOL	DATE	TIME								
1	SP-5 @ 3'	ତ 1	×	×	4/2/18	1315	×	Н	×	×				
12	SP-6 @ 1'	ი ე	×	×	4/2/18	1430	×		×	×				
13	SP-7 @ 1'	G 1	×	×	4/2/18	1450	×		×	×				
14	SP-8 @ 1'	G 1	×	×	4/3/18	0900	×		×	×	-	-	-	-
15	SP-9 @ 1'	G 1	×	×	4/3/18	0910	×	SEC. 21	×		×	×	×	×
16	SP-10 @ 1'	ე ც	×	×	4/3/18	0915	2000	×	×	A 1 A 2 A 3	×	×	×	×
17	SP-11 @, 1'	G 1	×	×	4/3/18	0920		×			×	×	×	×
8	SP-12 @ 1'	ე ი	×	×	4/3/18	0930		×	×		×	×	×	×
191	SP-12 @ 3'	ତ 1	×	×	4/3/18	1010		×	×		×	×	×	×
Se Constitution of the Con	SP-12 @, 5'	G 1	×	i X	4/3/18	1020		×	×		×	×	×	×
PLEASE NOTE: Liability and Damages. Cardina analyses. All claims including those for negligo service. In no event shall Cardinal be liable for stillates or successors arising out of or related.	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 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 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 profits increased by client, it is subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, reparalless of whether such claim is based upon any of the above stated traspos or otherwise.	emedy for any o tsoever shall b mages, includi s hereunder by	claim arising whether be deemed waived u ding without limitation	based in contract or tort, shall be limited to the amount paid by the enhees made in writing and received by Cardinal within 30 days to business interruptions, loss of use, or loss of profits incurred so the the above state.	t, shall be limited to and received by ons, loss of use, o	o the amount paid Cardinal within 3 r loss of profits in any of the abov		by the clic 0 days a curred b	by the client for the 0 days after com- curred by client, e stated reasons	by the client for the 0 days after completion of curred by client, its subsion e stated reasons or otherway	by the client for the 0 days after completion of the applic coursed by client, its subsidiaries, e stated reasons or otherwise.	y the client for the 0 days after completion of the applicable curred by client, its subsidiaries, e stated reasons or otherwise.	by the client for the O days after completion of the applicable lourned by client, its subsidiaries, e stated reasons or otherwise.	by the client for the O days after completion of the applicable coursed by client, its subsidiaries, estated reasons or otherwise.
Relinquished By:	Date: 4_4,	Rece	Received By:	Men	1284	Phone Result: Fax Result: REMARKS:		₹—₹—B	₹—₹—B	₹—₹—B	□ Yes □ No □ Yes □ No	□ Yes □ No □ Yes □ No	₹—₹—B	□ Yes □ No □ Yes □ No
Dalinguiched By:	v: Date:	Recei	Received By:		***************************************									

Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 Sample Condition
Cool Intact
Lives Gives

CHECKED BY:

Please e-mail results to ben@trinityoilfieldservices.com & todd@trinityoilfieldservices.com

Revision 1.0 **FORM-006** 

Sampler - UPS - Bus - Other: 5.20

5150

Delivered By: (Circle One)

Time:

Relinquished By:

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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

75) 393_2326 FAY (575) 393_2476	East Marland, Hobbs, NM 88240	

		ı					1	1	-		1					l	١			ı	l			
Company Name:	Trinity Oilfield Services & Rentals, LLC	ş, F	C						B	BILLT	10					Ļ	ANALYSIS	SY		REQUEST	DE DE	TS		
Project Manager:	Ben J. Arguijo						P.	P.O. #:																
Address: P.O. Box 2587	x 2587						CC	Compan	an'	Trinity										-				
City: Hobbs	State: NM	Zip:	88241	241			At	Attn:																
Phone #: (575)390-7208	0-7208 <b>Fax #:</b>						Ą	Address	SS															
Project #:	Project Owner:		Cam	Cambrian	_		Ω	City:						)	)									
Project Name: Do	Dorstate SWD						St	State:		Zip:			5M)	21B	300					-				
Project Location:	Eddy Co., NM						무	Phone #:	#				801	(80	de (					_				
Sampler Name: Tristan Payne	stan Payne						Fa	Fax #					Н (	EX	lori									-
FOR LAB USE ONLY			$\dashv$	_	MATRIX	≅	ľ	PRE	PRESERV		SAMPLING	NG	TF	вт	Ch									
		-				************	•••••		•••••														 	
Lab I.D. #600935	Sample I.D.	(G)RAB OR (	# CONTAINE GROUNDWA	WASTEWATI	SOIL	OIL SLUDGE	OTHER:	ACID/BASE:	ICE / COOL OTHER :		DATE	TIME												
22	SP-13 @ 1'	<u>o</u>			×		****		×	4/3/18	ω	1040	×	×	×					-	-			
28	SP-14 @ I'	០	->		×				×	4/3/18	8	1045	×	×	×					-				
22	SP-15 @ 1'	ഒ			×				×	4/3/18	8	1050	×	×	×					_	_			
14	SP-16 @ 1'	ര	->		×				×	4/3/18	∞	1055	×	×	×					-	_			
Z	SP-17 @ 1'	ഒ			×				×	4/3/18	8	1100	×	×	×					_	_	_		
26	SP-18 @ 1'	ഒ	->		×				×	4/3/18	∞	1105	×	×	×						_			
the	SP-19 @ 1'	ര			×				×	4/3/18	8	1110	×	×	×									
28	SP-20 @ 1'	G			×				×	4/3/18	8	1115	×	×	×				_	_	_			
29	SP-21 @ X' l' た。	ര	->		×				×	4/3/18	00	1120	×	×	×					-	_			
06	SP-22 @, 1'	ഒ	-7		×		****		×	4/3/18	00	1125	×	×	×					Н	_			
PLEASE NOTE: Liability and	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 the client for the	edy for	any clai	im arisin	g whed	her bas	ed in e	ontraci	or tort	shall be limi	led to t	he amount pa	id by the	client fo	or the	26 #	nolimet	5						
service. In no event shall Car		ges, in	cluding	withou	t limitar	tion, b	usines	s inte	ruption	is, loss of us	se, or lo	oss of profits	s incurre	ed by cli	ent, its sub	sidiarie	3, 100	î						
Relinquished By:	Date: U, U // Regeived By: // Phone Result: ☐ Yes	Re	geive	ed By	`.		-					Phone Result: ☐ Yes ☐ No {Add'I Phone #:	esult	 	es 🗆	□No	Add'	Pho	ne #:					

† Cardinal cannot accept verbal changes Please fax written changes to 575-393-2476

FORM-006 Revision 1.0

Sampler - UPS - Bus - Other: 5.20

Sample Condition Cool Intact Cool Intact Tres In Yes

CHECKED BY:

Please e-mail results to ben@trinityoilfieldservices.com &

todd@trinityoilfieldservices.com

Delivered By: (Circle One)

Time:

Time: 4:30 Date:

> Fax Result: REMARKS:

> > ☐ Yes ☐ No {Add'l Fax #:

Received By:

Revision 1.0 FORM-006

Sampler - UPS - Bus - Other:

5.20

Page 50 of 50

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

101 East Mariand, Hobbs, NM 88240		Page 4 of 4
(575) 393-2326 FAX (575) 393-2476		C
Company Name: Trinity Oilfield Services & Rentals, LLC	BILL TO	ANALYSIS REQUEST
Project Manager: Ben J. Arguijo	P.O. #:	
Address: P.O. Box 2587	Compan; Trinity	
City: Hobbs State: NM Zip: 88241	Attn:	

Company Name:	Trinity Oilfield Services & Rentals, LLC	s, LL	C									Ø	BILL TO					2	S	ANALYSIS	S	S	Z	10	Įζ	REQUEST	
Project Manager:	: Ben J. Arguijo								Р.	P.O. #:	#				_								_		_		
Address: P.O. Box 2587	30x 2587								S	Compan	pa	Ď.	Trinity														
City: Hobbs	State: NM	Zip:	1	88241	-				₽.	Attn:																	
Phone #: (575)3	(575)390-7208 <b>Fax #</b> :								Ä	Address	es.	Ñ															
Project #:	Project Owner:	er:	Ca	Cambrian	ian				Ω.	City:						8											
Project Name: D	Dorstate SWD					п			3S	State:	12		Zip:	5M)	21B	300											
Project Location: Eddy Co., NM	: Eddy Co., NM								P	Phone #:	9	#		801			-										
Sampler Name: Tristan Payne	ristan Payne			700		10000			Fa	Fax #	##			PH (													
FOR LAB USE ONLY					2	MATRIX	꽂			뀨	ĒS	PRESERV	SAMPLING	TF											_		
Lab I.D. 19800935	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE TIME	m									200				
15	SP-23 @ 1'	െ	_			×					×		4/3/18 1130	×	×	×		Н					Ш		Ш		
Ch.	SP-24 @ 1'	ഒ	7			×					×	<u> </u>	4/3/18 1135	×	×	_							_		_		
22	SP-25 @ 1'	G	7			×					×	<u></u>	4/3/18 1140	×	×	20 22	T.	_							34		
155	SP-26 @ 1'	G	7			×					×		4/3/18 1150	×	×	×		-							_		
35	SP-27 @ 1'	ര	7			×					$\tilde{\times}$	<u> </u>	4/3/18 1155	×	×	×		-									
36	SP-28 @ 1'	ഹ				×					×		4/3/18 1200	×	×	×		_									
														_				<u> </u>					_		_		
																_		H					Щ				
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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 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 certomance of services hereunder by Cardinal, recardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

| Phone Result: | Yes | No | Add'!! Relinquished By: Delivered By: (Circle One) 27# Time: Date: Time: 4:30 Received By Sample Condition Cool Intact Gres Gres (Initials) Fax Result: REMARKS: Please e-mail results to ben@trinityoilfieldservices.com & ☐ Yes ☐ No {Add'l Fax #: todd@trinityoilfieldservices.com Add'l Phone #:

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



April 30, 2018

**BEN ARGUIJO** 

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: DORSTATE SWD

Enclosed are the results of analyses for samples received by the laboratory on 04/19/18 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received: 04/19/2018 Sampling Date: 04/09/2018
Reported: 04/30/2018 Sampling Type: Soil

Project Name: DORSTATE SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: PERMIAN WATER SOLUTIONS - EDDY CC

### Sample ID: SP- 29 @ 1' (H801094-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	04/25/2018	ND	432	108	400	3.77	

### Sample ID: SP- 29 @ 8' (H801094-02)

Chloride, SM4500CI-B	mg	/ <b>kg</b>	Analyze	а ву: АС					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	04/25/2018	ND	432	108	400	3.77	

### Sample ID: SP- 30 @ 1' (H801094-03)

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	04/23/2018	ND	2.00	100	2.00	0.705	
Toluene*	<0.050	0.050	04/23/2018	ND	2.04	102	2.00	1.64	
Ethylbenzene*	< 0.050	0.050	04/23/2018	ND	2.07	104	2.00	1.34	
Total Xylenes*	<0.150	0.150	04/23/2018	ND	6.08	101	6.00	0.503	
Total BTEX	< 0.300	0.300	04/23/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID 113 % 72-148

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	04/25/2018	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

### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587

HOBBS NM, 88241 Fax To: NONE

 Received:
 04/19/2018
 Sampling Date:
 04/09/2018

 Reported:
 04/30/2018
 Sampling Type:
 Soil

Project Name: DORSTATE SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: PERMIAN WATER SOLUTIONS - EDDY CC

### Sample ID: SP- 30 @ 1' (H801094-03)

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	04/23/2018	ND	213	107	200	0.870	
DRO >C10-C28*	<10.0	10.0	04/23/2018	ND	209	104	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	04/23/2018	ND					
Surrogate: 1-Chlorooctane	82.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	74.7	% 37.6-14	7						

### Sample ID: SP- 30 @ 6' (H801094-04)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	04/25/2018	ND	432	108	400	3.77	

### Sample ID: SP- 31 @ 1' (H801094-05)

Chloride, SM4500Cl-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	04/25/2018	ND	432	108	400	3.77	

### Sample ID: SP- 31 @ 10' (H801094-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	04/25/2018	ND	432	108	400	3.77	

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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO

P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 04/19/2018 Sampling Date: 04/10/2018

Reported: 04/30/2018 Sampling Type: Soil

Project Name: DORSTATE SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: PERMIAN WATER SOLUTIONS - EDDY CC

### Sample ID: SP- 32 @ 1' (H801094-07)

Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	04/25/2018	ND	432	108	400	3.77	
Sample ID: SP- 32 @ 10' (I	H801094-08	3)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	04/25/2018	ND	432	108	400	3.77	
Sample ID: SP- 33 @ 1' (H	801094-09)	)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	04/25/2018	ND	432	108	400	3.77	
Sample ID: SP- 33 @ 10' (I	H801094-10	))							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3800	16.0	04/25/2018	ND	432	108	400	3.77	
Sample ID: SP- 34 @ 1' (H	801094-11)	)							
Chloride, SM4500Cl-B	-	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7100	16.0	04/25/2018	ND	432	108	400	3.77	QM-07

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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 04/19/2018 Sampling Date: 04/10/2018

Reported: 04/30/2018 Sampling Type: Soil

Project Name: DORSTATE SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: PERMIAN WATER SOLUTIONS - EDDY CC

### Sample ID: SP- 34 @ 10' (H801094-12)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1540	16.0	04/25/2018	ND	432	108	400	3.77	

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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587

HOBBS NM, 88241 Fax To: NONE

Received: 04/19/2018 Sampling Date: 04/10/2018

Reported: 04/30/2018 Sampling Type: Soil

Project Name: DORSTATE SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: MC

Project Location: PERMIAN WATER SOLUTIONS - EDDY CC

### Sample ID: SP- 35 @ 1' (H801094-13)

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	04/23/2018	ND	2.13	106	2.00	2.90	
Toluene*	<0.050	0.050	04/23/2018	ND	2.09	104	2.00	2.48	
Ethylbenzene*	<0.050	0.050	04/23/2018	ND	2.07	103	2.00	4.39	
Total Xylenes*	<0.150	0.150	04/23/2018	ND	6.32	105	6.00	4.60	
Total BTEX	<0.300	0.300	04/23/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.6	% 72-148							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8200	16.0	04/25/2018	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	04/23/2018	ND	213	107	200	0.870	
DRO >C10-C28*	97.7	10.0	04/23/2018	ND	209	104	200	2.13	
EXT DRO >C28-C36	38.0	10.0	04/23/2018	ND					
Surrogate: 1-Chlorooctane	85.7	% 41-142							
Surrogate: 1-Chlorooctadecane	87.2	% 37.6-147	7						

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 04/19/2018 Sampling Date: 04/10/2018

Reported: 04/30/2018 Sampling Type: Soil

Project Name: DORSTATE SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: PERMIAN WATER SOLUTIONS - EDDY CC

### Sample ID: SP- 35 @ 10' (H801094-14)

Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4300	16.0	04/25/2018	ND	432	108	400	3.77	

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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 04/19/2018 Sampling Date: 04/11/2018

Reported: 04/30/2018 Sampling Type: Soil

Project Name: DORSTATE SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: MC

Project Location: PERMIAN WATER SOLUTIONS - EDDY CC

### Sample ID: SP- 36 @ 1' (H801094-15)

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	04/23/2018	ND	2.13	106	2.00	2.90	
Toluene*	0.062	0.050	04/23/2018	ND	2.09	104	2.00	2.48	
Ethylbenzene*	<0.050	0.050	04/23/2018	ND	2.07	103	2.00	4.39	
Total Xylenes*	1.12	0.150	04/23/2018	ND	6.32	105	6.00	4.60	
Total BTEX	1.18	0.300	04/23/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	139	% 72-148							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12000	16.0	04/25/2018	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*	38.1	10.0	04/23/2018	ND	213	107	200	0.870	
DRO >C10-C28*	1190	10.0	04/23/2018	ND	209	104	200	2.13	
EXT DRO >C28-C36	216	10.0	04/23/2018	ND					
Surrogate: 1-Chlorooctane	88.3	% 41-142							
Surrogate: 1-Chlorooctadecane	104	% 37.6-147	7						

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

### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

**BEN ARGUIJO** P. O. BOX 2587

HOBBS NM, 88241 Fax To: **NONE** 

Received: 04/19/2018 Sampling Date: 04/11/2018

Reported: 04/30/2018 Sampling Type: Soil

Project Name: **DORSTATE SWD** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: PERMIAN WATER SOLUTIONS - EDDY CO

### Sample ID: SP- 36 @ 10' (H801094-16)

BTEX 8021B	mg/	kg	Analyze	d By: MS					I-02
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/27/2018	ND	2.00	100	2.00	1.95	QM-07
Toluene*	< 0.050	0.050	04/27/2018	ND	1.98	98.8	2.00	2.40	
Ethylbenzene*	< 0.050	0.050	04/27/2018	ND	1.93	96.3	2.00	1.74	
Total Xylenes*	<0.150	0.150	04/27/2018	ND	5.91	98.6	6.00	1.54	
Total BTEX	<0.300	0.300	04/27/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.0 %	72-148							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	04/25/2018	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					I-03
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2018	ND	208	104	200	0.405	
DRO >C10-C28*	19.2	10.0	04/27/2018	ND	204	102	200	0.173	
EXT DRO >C28-C36	<10.0	10.0	04/27/2018	ND					
Surrogate: 1-Chlorooctane	88.79	% 41-142							
Surrogate: 1-Chlorooctadecane	76.19	37.6-14	7						

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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587

HOBBS NM, 88241

Fax To: NONE

Received: 04/19/2018 Sampling Date: 04/11/2018

Reported: 04/30/2018 Sampling Type: Soil

Project Name: DORSTATE SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: PERMIAN WATER SOLUTIONS - EDDY CC

Sample ID: SP- 37 @ 1' (H801094-17)

Cilioride, SM4500CI-B	ilig	/ Kg	Allalyze	u by: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	04/25/2018	ND	432	108	400	3.77	

### Sample ID: SP- 37 @ 10' (H801094-18)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	04/25/2018	ND	432	108	400	3.77	

### Sample ID: SP- 38 @ 1' (H801094-19)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	04/25/2018	ND	432	108	400	3.77	

### Sample ID: SP- 38 @ 10' (H801094-20)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1650	16.0	04/25/2018	ND	432	108	400	3.77	

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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received: 04/19/2018 Sampling Date: 04/11/2018

Reported: 04/30/2018 Sampling Type: Soil

Project Name: DORSTATE SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: MS

Project Location: PERMIAN WATER SOLUTIONS - EDDY CC

### Sample ID: SP- 39 @ 4' (H801094-21)

BTEX 8021B

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/23/2018	ND	2.13	106	2.00	2.90	
Toluene*	<0.050	0.050	04/23/2018	ND	2.09	104	2.00	2.48	
Ethylbenzene*	<0.050	0.050	04/23/2018	ND	2.07	103	2.00	4.39	
Total Xylenes*	<0.150	0.150	04/23/2018	ND	6.32	105	6.00	4.60	
Total BTEX	<0.300	0.300	04/23/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9	% 72-148							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15600	16.0	04/25/2018	ND	432	108	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	04/23/2018	ND	213	107	200	0.870	
DRO >C10-C28*	<10.0	10.0	04/23/2018	ND	209	104	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	04/23/2018	ND					
Surrogate: 1-Chlorooctane	87.6	% 41-142							
Surrogate: 1-Chlorooctadecane	82.9	% 37.6-14	7						

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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO

P. O. BOX 2587

HOBBS NM, 88241

Fax To: NONE

Received: 04/19/2018 Sampling Date: 04/11/2018

Reported: 04/30/2018 Sampling Type: Soil

Project Name: DORSTATE SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: PERMIAN WATER SOLUTIONS - EDDY CC

### Sample ID: SP- 39 @ 10' (H801094-22)

Chloride, SM4500Cl-B	` mg	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7000	16.0	04/25/2018	ND	432	108	400	3.77	
Sample ID: SP- 40 @ 1' (	H801094-23)	)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	04/25/2018	ND	432	108	400	3.77	
Sample ID: SP- 40 @ 10' Chloride, SM4500Cl-B	•	<b>!)</b> /kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	04/25/2018	ND	432	108	400	3.77	
Sample ID: SP- 41 @ 1' (	H801094-25)	)							
Chloride, SM4500CI-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	04/25/2018	ND	432	108	400	3.77	
Sample ID: SP- 41 @ 5' (	H801094-26)	1							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	04/25/2018	ND	432	108	400	3.77	

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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

**BEN ARGUIJO** P. O. BOX 2587 HOBBS NM, 88241 Fax To: **NONE** 

Received: 04/19/2018 Sampling Date: 04/12/2018

Reported: 04/30/2018 Sampling Type: Soil

Project Name: **DORSTATE SWD** Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: PERMIAN WATER SOLUTIONS - EDDY CO

### Sample ID: SP- 42 @ 1' (H801094-27)

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	04/23/2018	ND	2.13	106	2.00	2.90	
Toluene*	<0.050	0.050	04/23/2018	ND	2.09	104	2.00	2.48	
Ethylbenzene*	<0.050	0.050	04/23/2018	ND	2.07	103	2.00	4.39	
Total Xylenes*	<0.150	0.150	04/23/2018	ND	6.32	105	6.00	4.60	
Total BTEX	<0.300	0.300	04/23/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9	% 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	04/25/2018	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	04/23/2018	ND	213	107	200	0.870	
DRO >C10-C28*	<10.0	10.0	04/23/2018	ND	209	104	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	04/23/2018	ND					
Surrogate: 1-Chlorooctane	86.9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	81.7	% 37.6-14	7						

### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO

P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 04/19/2018 Sampling Date: 04/12/2018

Reported: 04/30/2018 Sampling Type: Soil

Project Name: DORSTATE SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: PERMIAN WATER SOLUTIONS - EDDY CC

### Sample ID: SP- 42 @ 6' (H801094-28)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	04/25/2018	ND	432	108	400	3.77	
Sample ID: SP- 43 @ 1' (H8	01094-29)	)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2520	16.0	04/25/2018	ND	432	108	400	3.77	
Sample ID: SP- 43 @ 10' (H	801094-30	<b>)</b> )							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	04/25/2018	ND	432	108	400	3.77	
Sample ID: SP- 44 @ 1' (H8	01094-31)	)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	04/25/2018	ND	416	104	400	3.77	QM-07
Sample ID: SP- 44 @ 7' (H8	01094-32)	)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride									

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Celey D. Keene



### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

 Received:
 04/19/2018
 Sampling Date:
 04/12/2018

 Reported:
 04/30/2018
 Sampling Type:
 Soil

Project Name:DORSTATE SWDSampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi Henson

Project Location: PERMIAN WATER SOLUTIONS - EDDY CC

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	04/25/2018	ND	416	104	400	3.77	
Sample ID: SP- 45 @ 3'	(H801094-34)	ı							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/25/2018	ND	416	104	400	3.77	
Sample ID: SP- 46 @ 1'	(H801094-35)	1							
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	04/25/2018	ND	416	104	400	3.77	
Sample ID: SP- 47 @ 1'	(H801094-36)	1							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	04/25/2018	ND	416	104	400	3.77	

### Sample ID: SP- 47 @ 10' (H801094-37)

		,							
Chloride, SM4500Cl-B	ide, SM4500Cl-B mg/kg			d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	04/25/2018	ND	416	104	400	3.77	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 04/19/2018 Sampling Date: 04/13/2018

Reported: 04/30/2018 Sampling Type: Soil

Project Name: DORSTATE SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: MS

Project Location: PERMIAN WATER SOLUTIONS - EDDY CC

### Sample ID: SP- 48 @ 1' (H801094-38)

BTEX 8021B

		<u> </u>							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/23/2018	ND	2.13	106	2.00	2.90	
Toluene*	<0.050	0.050	04/23/2018	ND	2.09	104	2.00	2.48	
Ethylbenzene*	<0.050	0.050	04/23/2018	ND	2.07	103	2.00	4.39	
Total Xylenes*	<0.150	0.150	04/23/2018	ND	6.32	105	6.00	4.60	
Total BTEX	<0.300	0.300	04/23/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 72-148	,						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6320	16.0	04/25/2018	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	04/23/2018	ND	213	107	200	0.870	
DRO >C10-C28*	<10.0	10.0	04/23/2018	ND	209	104	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	04/23/2018	ND					
Surrogate: 1-Chlorooctane	84.5	% 41-142							
Surrogate: 1-Chlorooctadecane	80.6	% 37.6-14	7						

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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO

P. O. BOX 2587

HOBBS NM, 88241

Fax To: NONE

Received: 04/19/2018 Sampling Date: 04/13/2018

Reported: 04/30/2018 Sampling Type: Soil

Project Name: DORSTATE SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: PERMIAN WATER SOLUTIONS - EDDY CC

Sample ID: SP- 48 @ 10' (H801094-39)

Chloride, SM4500CI-B mg/kg Analyzed By: AC

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

**Chloride** 5200 16.0 04/25/2018 ND 416 104 400 3.77

Sample ID: SP- 49 @ 1' (H801094-40)

Chloride, SM4500Cl-B Analyzed By: AC BS RPD Analyte Result Reporting Limit Analyzed Method Blank True Value QC Qualifier % Recovery 8000 16.0 04/25/2018 416 400 3.77 Chloride ND 104

Sample ID: SP- 49 @ 10' (H801094-41)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 1200 04/25/2018 ND 400 16.0 416 104 3.77

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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

**BEN ARGUIJO** P. O. BOX 2587 HOBBS NM, 88241

Fax To: **NONE** 

Received: 04/19/2018 Sampling Date: 04/13/2018

Reported: 04/30/2018 Sampling Type: Soil

Project Name: **DORSTATE SWD** Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: PERMIAN WATER SOLUTIONS - EDDY CO

### Sample ID: SP- 50 @ 1' (H801094-42)

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	04/23/2018	ND	2.13	106	2.00	2.90	
Toluene*	<0.050	0.050	04/23/2018	ND	2.09	104	2.00	2.48	
Ethylbenzene*	<0.050	0.050	04/23/2018	ND	2.07	103	2.00	4.39	
Total Xylenes*	<0.150	0.150	04/23/2018	ND	6.32	105	6.00	4.60	
Total BTEX	<0.300	0.300	04/23/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 72-148							
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7360	16.0	04/25/2018	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	04/23/2018	ND	213	107	200	0.870	
DRO >C10-C28*	67.8	10.0	04/23/2018	ND	209	104	200	2.13	
EXT DRO >C28-C36	58.0	10.0	04/23/2018	ND					
Surrogate: 1-Chlorooctane	67.6	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	64.5	% 37.6-14	7						

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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

**BEN ARGUIJO** P. O. BOX 2587

HOBBS NM, 88241

Fax To: NONE

Received: 04/19/2018 Sampling Date: 04/13/2018

Reported: 04/30/2018 Sampling Type: Soil

Project Name: **DORSTATE SWD** Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: PERMIAN WATER SOLUTIONS - EDDY CO

loride, SM4500CI-B	mg	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS % Rec	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	04/25/2018	ND	416	104	400	3.77	
Sample ID: SP- 51 @ 1' ( Chloride, SM4500Cl-B	H801094-44)		Analyzo	d By: AC					
Cilioride, Si-14300CI-B	1119	r.y	Allalyze	u by. AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte <b>Chloride</b>	Result <b>2000</b>	Reporting Limit	Analyzed 04/25/2018	Method Blank	BS 416	% Recovery	True Value QC 400	RPD 3.77	Qualifier

Cilioriue, Si-14300Ci-B	ilig/	rky .	Allalyze	u by. AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	04/25/2018	ND	416	104	400	3.77	

### Sample ID: SP- 52 @ 1' (H801094-46)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2640	16.0	04/25/2018	ND	416	104	400	3.77	

### Sample ID: SP- 52 @ 10' (H801094-47)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	04/25/2018	ND	416	104	400	3.77	

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### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

**BEN ARGUIJO** P. O. BOX 2587 HOBBS NM, 88241

Fax To: **NONE** 

Received: 04/19/2018 Sampling Date: 04/13/2018

Reported: 04/30/2018 Sampling Type: Soil

Project Name: **DORSTATE SWD** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: PERMIAN WATER SOLUTIONS - EDDY CO

### Sample ID: SP- 53 @ 1' (H801094-48)

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	04/23/2018	ND	2.13	106	2.00	2.90	
Toluene*	<0.050	0.050	04/23/2018	ND	2.09	104	2.00	2.48	
Ethylbenzene*	<0.050	0.050	04/23/2018	ND	2.07	103	2.00	4.39	
Total Xylenes*	<0.150	0.150	04/23/2018	ND	6.32	105	6.00	4.60	
Total BTEX	<0.300	0.300	04/23/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 72-148							
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	04/25/2018	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	04/23/2018	ND	213	107	200	0.870	
DRO >C10-C28*	13.8	10.0	04/23/2018	ND	209	104	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	04/23/2018	ND					
Surrogate: 1-Chlorooctane	84.3	% 41-142							
Surrogate: 1-Chlorooctadecane	83.4	% 37.6-14	7						

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Celey D. Keene



### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 04/19/2018 Sampling Date: 04/13/2018

Reported: 04/30/2018 Sampling Type: Soil

Project Name: DORSTATE SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: PERMIAN WATER SOLUTIONS - EDDY CC

### Sample ID: SP- 53 @ 10' (H801094-49)

Chloride, SM4500CI-B	hloride, SM4500Cl-B mg/kg								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	04/25/2018	ND	416	104	400	3.77	

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Celey D. Keene



### **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.
I-03	This result was extracted outside of the EPA recommended holding time of 14 days.
I-02	This result was analyzed outside of the EPA recommended holding time.
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

Revision 1.0 FORM-006

Sampler - UPS - Bus - Other: 1,16

### ARDINAL LABORATORIES

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Project Manager:	Ben J. Arguijo								7	P.O. #:	#	1										_				_
Address: P.O. Bo	Box 2587								0	Compan	g	an'		Trinity												
City: Hobbs	State: NM	Zip:		88241	41				_	Attn:	=							O						_		
Phone #: (575)39	(575)390-7208 Fax #:								_	Address	re	SS						50								
Project #:	Project Owner:	ner:	Per	Permian Water Solutions	n Wa	iter S	Solut	tions		City:						,	)	1) 4								
ame:	Dorstate SWD								10	State:	te:			Zip:		5M)	21E	(300								
Project Location:	Eddy, NM								-	Phone #:	one	#				(801	(80	ide,								
Sampler Name: Tristan Pavne	ristan Pavne								_	Fax #	#					H (	EX	lori								
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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240
(675) 202 222 EAY (675) 303-2476

Page 3 of 5

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Time,		and Damages. Cardinal's liability and client's exclusioning those for negligence and any other causes Cardinal be liable for incidental or consequentla control behavior to the professional of the profession	SP-43 @ 10'	SP-43 @ 1'	SP-42 @ 6'	SP-42 @1'	SP-41 @ 5'	SP-41 @ 1'	SP-40 @ 10'	SP-40 @ 1'	SP-39 @ 10'	SP-39 @ 4'	Sample I.D.		ristan Payne	: Eddy, NM	Oorstate SWD	Project O	390-7208 <b>Fax #</b> :	State: N	30x 2587	Ben J. Arguijo	Trinity Oilfield Services & Rer
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REMARKS	Phone Res Fax Result	y Cardinal within 3 or loss of profits in on any of the above	1220	1135	1125	1100	1050	1030	1525	1440	1345	1300	TIME			(90	151						
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	Beceived By: JUNISON	Pare   Received By:    Phone Result:   Yes   No   Fax Result:   Yes   No   Times   30   M	PLEASE NOTE: Liability and Damages. Cardinal's liability and cleral's exclusive remody for any claim arising whether based in contract or lord, stall be immediately and 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, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of sencices hereunder by Cardinal repartitions, 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 sencices hereunder by Cardinal repartitions, 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 sencices hereunder by Cardinal repartitions, 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 sencices hereunder by Cardinal repartitions, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates affiliates or successors arising and received by:    Partition   Profit   Partition   Profit   Partition   Partiti	SP-43 (a) 10'  SP-43 (a) 10'  RELATE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remoty 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 wrived unless made in writing and received by Cardinal within 30 days after completion of the applicable affiliates or successors arising out of or related to the certomance of services hereunder by Cardinal reparties of whether such claim is based upon any of the above stated easons or clientaries.  Relinquished By:  Received By:	SP-43 (@) IV  SP-44 (IN-12/18 1220	SP-42 (a) 6' G G X X 4/12/18 1125 X  SP-43 (a) 1' G G X X 4/12/18 1135 X  SP-43 (a) 10' G G X 4/12/18 1135 X 4/12/18 1135 X  SP-43 (a) 10' G G X 4/12/18 1135 X 4/12/18 113	SP-42 @ 6	SP-42 @1'	25 SP-41 (@ 5'	1	1,4   Sp.40 @   1   X   X   4/11/18   1440   X   X   X   4/11/18   1525   X   X   4/11/18   1525   X   X   4/12/18   1030   X   X   X   X   4/12/18   1030   X   X   X   X   X   X   X   X   X	Relinquished By:   Received By:	2. SP-39 @ 4'	Column   C	Column   C	Fax #   Fax   Fa	Phone #:   Fax #   F	State   SWD   Eddy, NM   Phone #:   Fax #   Fax #	State   SWD   State   Zip:   Zi	Doctor   Project Owner:   Permism Water Solutions   City:   State:   Zip:   State:   Zip:	Column   City   City	Company   Comp	Ct Manager: Ben J. Arguijo

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ARDINAL LABORATORIES

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Manager: Company Name: Project #: City: Address: P.O. Box 2587 Sampler Name: Tristan Payne Project Name: Dorstate SWD Phone #: Project Location: Hobbs (575)390-7208 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Ben J. Arguijo Eddy, NM Trinity Oilfield Services & Rentals, LLC Fax #: Project Owner: State: Z Zip: Permian Water Solutions 88241 MATRIX P.O. #: State: City: Attn: Fax # Phone #: Address Compan PRESERV Trinity Zip SAMPLING TPH (8015M) BTEX (8021B) Chloride (300) ANALYSIS REQUEST Page 4 of 5

Lab I.D.

Sample I.D.

(G)RAB OR (C)OMP

# CONTAINERS

WASTEWATER

SOIL

OIL SLUDGE

OTHER

ACID/BASE:

ICE / COOL

OTHER

DATE

4/12/18

×

4/12/18 4/12/18

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GROUNDWATER

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SP-47 @ 10'

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SP-48 @ 10'

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Supering

SP-44 @ 7 SP-44 @ 1'

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Dyes 14 Yes
No No Phone Result: ☐ Yes ☐ No Add'l Phone #
Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS: Please e-mail results to ben@trinityoilfieldservices.com & todd@trinityoilfieldservices.com

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Time:

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### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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(575) 393-2326 FAX (575) 393-2476

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Project Manager:	: Ben J. Arguijo		P.O. #:						
Address: P.O.B	8 1		Compan	Trinity					
City: Hobbs	State: NM	<b>√ Zip:</b> 88241	Attn:		<u>L</u>				
Phone #: (575)3	(575)390-7208 Fax #:		Address						
Project #:	Project Owner:	ner: Permian Water Solutions	dutions City:		)	3)	0)		
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Project Location:	r: Eddy, NM		Phone #:		(80	(8)	ide		
Sampler Name: Tristan Payne	Tristan Payne		Fax #		PH	(E)	nlor		
EOR I ARTISE ONLY		MAT	MATRIX PRESERV	SAMPLING	T	В	CI		
Lab I.D.	Sample I.D.	G)RAB OR (C)OMP. CONTAINERS GROUNDWATER WASTEWATER SOIL	DIL SLUDGE DTHER: ACID/BASE: ICE / COOL OTHER:	DATE T	TIME				
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2h	SP-50 @ 10'		×	4/13/18 13	1315	T	×		
F	SP-51 @ 1'	G 1 ×	×	4/13/18 13	1320		×		
24	SP-51 @ 10'	G 1 ×	×	4/13/18 14	1405	T	×		
Jh	SP-52 @ 1'	1	×	4/13/18 14	1410	+	×		
<u>1</u> 2	SP-52 @ 10'	G 1	×	4/13/18 14	1455	t	×		
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Ph	SP-53 @ 10'	G G X	×	4/13/18 15	1545	+	×		
PLEASE NOTE: Liability analyses. All claims inclu	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 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 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 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 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 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 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.	e remedy for any claim arising whatsoever shall be deemed was	whether based in contract or tort, aived unless made in writing a material on business interruption	shall be limited to the arr and received by Cardin s, loss of use, or loss o	ount paid by t al within 30 d f profits incur	he client for ays after or red by clie	r the completion of the int, its subsidiari	applicable	
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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 111644

### **CONDITIONS**

Operator:	OGRID:
Permian Water Solutions, LLC	373626
PO Box 2106	Action Number:
Midland, TX 79702	111644
	Action Type:
	[C-141] Release Corrective Action (C-141)

### CONDITIONS

Cre	eated By	Condition	Condition Date
rh	amlet	The Remediation Plan is Conditionally Approved. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The release area needs confirmation samples representing no more than 200 ft2. All off pad areas must meet reclamation standards set forth in the OCD Spill Rule. If the fluids from the release entered the old legacy reserve pit, the spill and the legacy reserve pit will need to be cleaned up. The liners are approved with the stipulation that as much of the contaminated soil is safely removed as possible or the vertical delineation meets the strictest closure criteria standards. The 3 borings being completed as temporary monitoring wells will allow Apache to verify that there was no groundwater impact. It is important that the OCD have one boring in the release area to compare to the "Up Gradient Boring Location" and the "Down Gradient Boring Location". The borings will need to be safely drilled and purged.	6/27/2023