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

)

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Incident ID	NAPP2035254726
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380	
Contact Name Kyle Littrell	Contact Telephone 432-221-7331	
Contact email Kyle_Littrell@xtoenergy.com	Incident # (assigned by OCD)	
Contact mailing address 522 W. Mermod, Carlsbad, NM 88220		

Location of Release Source

(NAD 83 in decimal degrees to 5 decimal places)

Longitude

-103.88675

Latitude 32.37987

Site Name James Ranch Unit DI 1A	Site Type Tank Battery
Date Release Discovered 12/3/2020	API# (if applicable)

Unit Letter	Section	Township	Range	County
F	21	228	30E	Eddy

Surface Owner: State K Federal Tribal Private (Name:

Nature and Volume of Release

Materia	l(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes No
X Condensate	Volume Released (bbls) 0.006	Volume Recovered (bbls) 0
🗌 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
JRU DI	orted a small amount of condensate (approx. 0.25 gallor [1A battery. The fluid quickly extinguished itself with n tained for remediation purposes.	ns) came out of the top of LP flare while working at the o vegetation impacted. A third-party contractor has

Received by OCD: 4/21/2 Form C-141 Page 2	2021 8:34:59 AM State of New Mexico Oil Conservation Division	PageIncident IDNAPP203525472District RPFacility IDFacility IDApplication ID
Was this a major release as defined by 19.15.29.7(A) NMAC [™] ∑ Yes □ No	If YES, for what reason(s) does the responsible pa A fire occurred at the facility.	rty consider this a major release?

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, by Amy Ruth to Mike Bratcher; Rob Hamlet; Victoria Venegas; 'Griswold, Jim, EMNRD'; blm_nm_cfo_spill@blm.gov on Friday, December 4, 2020 2:20 PM via email.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 \mathbf{X} The source of the release has been stopped.

NA

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 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: Kyle Littrell	Title:
Signature: <u>Je Jettutt</u> email: Kyle_Littrell@xtoenergy.com	Date: <u>12-17-20</u> Telephone: <u>432-221-7331</u>
OCD Only	
Received by:	Date:

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Oil Conservation Division

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Incident ID	NAPP2035254726
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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?	<u>50-100</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🛛 Yes 🗌 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔀 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- 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	NAPP2035254726
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				Facility ID	
				Application ID	
regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance of and/or regulations. Printed Name: Signature:	rmation given above is true and complete to the required to report and/or file certain release no nent. The acceptance of a C-141 report by the ate and remediate contamination that pose a the f a C-141 report does not relieve the operator of <u>Kyle Littrell</u> <u>rell@xtoenergy.com</u>	otifications ar e OCD does n meat to groun of responsibil Title: Date:	d perform c ot relieve the dwater, surfa ity for comp <u>SH&E</u>	orrective actions for rele e operator of liability sho ace water, human health liance with any other fee Supervisor	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only					
Received by:		_ D	ate:		

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Oil Conservation Division

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Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Kyle Littrell Title: SH&E Supervisor Signature: _____ Date: _____ email: Kyle Littrell@xtoenergy.com Telephone: 432-221-7331 **OCD Only** Received by: Chad Hensley Date: 06/11/2021 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. Title: Environmental Specialist Advanced

WSP USA

3300 North "A" Street Building 1, Unit 222 Midland, Texas 79705 432.704.5178

March 31, 2021

District II New Mexico Oil Conservation Division 811 South First Street Artesia, New Mexico 88210

RE: Closure Request James Ranch Unit DI 1A Incident Number NAPP2035254726 Eddy County, New Mexico

To Whom it May Concern:

WSP USA Inc. (WSP) on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing site assessment and soil sampling activities at the James Ranch Unit DI 1A (Site) in Unit F, Section 21, Township 22 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a small condensate fire at the Site. Based on the site assessment activities and laboratory analytical results from the soil sampling events, XTO is submitting this Closure Request, and requesting no further action (NFA) for Incident Number NAPP2035254726.

RELEASE BACKGROUND

On December 3, 2020, a small amount of condensate released from the top of the low-pressure flare and quickly extinguished itself. Approximately of 0.006 barrels (bbls) of condensate were released onto the well pad. XTO reported the release immediately to the New Mexico Oil Conservation Division (NMOCD) and subsequently submitted a Release Notification Form C-141 on December 17, 2020. The release was assigned Incident Number NAPP2035254726.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be between 50 and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 322252103541401, located approximately 1.04 miles northwest of the Site. The groundwater of 73 feet bgs and a total depth of 129 feet bgs. Ground surface elevation at the groundwater well location is 3,070 feet above mean sea level (amsl), which is approximately 97 feet lower in

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elevation than the Site. The next closest permitted groundwater well with depth to groundwater data is NMOSE well C-03015, located approximately 2.66 miles southeast of the Site. The groundwater well has a reported depth to groundwater of 262 feet bgs and a total depth of 1,316 feet bgs. Ground surface elevation at the groundwater well location is 3,285 feet amsl, which is approximately 118 feet higher in elevation than the Site. All wells used for depth to groundwater determination are depicted on Figure 1. The referenced well records are included in Attachment 1. There are no regional or Site-specific hydrological conditions, such as shallow surface water, karst features, wetlands, or vegetation that suggest the Site is conducive to shallow groundwater.

The closest continuously flowing or significant watercourse to the Site is an intermittent stream, located approximately 600 feet south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is located in a high potential karst designation area. Site receptors are identified on Figure 1.

CLOSURE CRITERIA

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT ACTIVITIES

On January 15, 2021, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel collected two preliminary assessment soil samples (SS01 and SS02) within the release extent from a depth of 0.3 feet bgs to assess for the presence or absence of impacted soil. The preliminary soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach[®] chloride QuanTab[®] test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

On March 3, 2021, WSP personnel returned to the Site to complete additional soil assessment activities. Boreholes BH01 and BH02 were advanced via hand auger to a depth of 4 feet bgs within the release extent. Delineation soil samples were collected from each borehole from depths of 2 feet bgs and 4 feet bgs. Soil from the boreholes was field screened for volatile aromatic

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hydrocarbons and chloride utilizing PID and Hach[®] chloride QuanTab[®] test strips, respectively. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Attachment 2. The borehole soil sample locations are depicted on Figure 3. Photographic documentation was conducted during the Site visits. A photographic log is included in Attachment 3.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Xenco Laboratories (Xenco) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

SOIL ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil samples SS01 and SS02 and delineation soil samples from boreholes BH01 and BH02 indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included as Attachment 4.

CLOSURE REQUEST

Site assessment activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the December 3, 2020 condensate fire. Laboratory analytical results for the soil samples collected within the release extent, indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on the soil sample analytical results, no impacted soil was identified, and no further remediation was required. As such, XTO respectfully requests no further action for Incident Number NAPP2035254726.

If you have any questions or comments, please do not hesitate to contact Ms. Ashley Ager at (970) 385-1096.

Sincerely,

WSP USA Inc.

per L

Spencer Lo Staff Geologist

Ashley L. Ager

Ashley L. Ager, P.G. Managing Director, Geologist

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cc: Kyle Littrell, XTO Bureau of Land Management

Attachments:

- Figure 1 Site Location Map
- Figure 2 Preliminary Soil Sample Locations
- Figure 3 Delineation Soil Sample Locations
- Table 1Soil Analytical Results
- Attachment 1 Referenced Well Records
- Attachment 2 Lithologic/Sampling Log
- Attachment 3 Photographic Log
- Attachment 4 Laboratory Analytical Reports

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TABLES

Table 1

Soil Analytical Results
James Ranch Unit DI 1A
Incident Number NAPP2035254726
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Clo	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	NE	100	600
Surface Samples										
SS01	01/15/2021	0.3	< 0.00199	< 0.00199	<50.3	87.0	<50.3	87.0	87.0	34.4
SS02	01/15/2021	0.3	< 0.00201	< 0.00201	<50.1	<50.1	<50.1	<50.1	<50.1	44.4
Delineation Samples										
BH01	03/03/2021	2	< 0.00200	< 0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	17.6
BH01A	03/03/2021	4	< 0.00199	< 0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	18.7
BH02	03/03/2021	2	< 0.00200	< 0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	10.9
BH02A	03/03/2021	4	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	12.3

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

< - indicates result is less than the stated laboratory method practical quantitation limit

NE - Not Established

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USGS 322252103541401 22S.30E.20.12310

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°22'52", Longitude 103°54'14" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011 Well depth: 129 feet Land surface altitude: 3,065 feet above NAVD88. Well completed in "Other aquifers" (N99990THER) national aquifer. Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1952-02-26	1959-02-19	6
Revisions	Unavailable (site:0) (timese	eries:0)

OPERATION:

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USGS 322252103541401 22S.30E.20.12310



USGS 322111103542601 22S.30E.32.11144

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°21'11", Longitude 103°54'26" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011 Well depth: 107 feet Land surface altitude: 3,022 feet above NAVD88. Well completed in "Other aquifers" (N99990THER) national aquifer. Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count	
Field groundwater-level measurements	1959-02-19	1998-02-02	21	
Revisions	Unavailable (site:0) (timeseries:			

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USGS 322111103542601 22S.30E.32.11144



USGS 322114103524801 22S.30E.33.212243

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°21'14", Longitude 103°52'48" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011 Well depth: 248 feet Land surface altitude: 3,163 feet above NAVD88. Well completed in "Other aquifers" (N99990THER) national aquifer. Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count	
Field groundwater-level measurements	1956-02-25	1998-02-02	15	
Revisions	Unavailable (site:0) (timeseries:			

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USGS 322114103524801 22S.30E.33.212243



USGS 322144103545101 22S.30E.30.234431

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°21'44", Longitude 103°54'51" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011 Well depth: 75 feet Land surface altitude: 3,021 feet above NAVD88. Well completed in "Other aquifers" (N99990THER) national aquifer. Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count	
Field groundwater-level measurements	1948-12-17	1948-12-17	3	
Revisions	Unavailable (site:0) (timeseries:			

OPERATION:

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USGS 322144103545101 22S.30E.30.234431



USGS 322215103502701 22S.30E.24.3334 P-14

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°22'15", Longitude 103°50'27" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011 Well depth: not determined. Land surface altitude: 3,360 feet above NGVD29. Well completed in "Other aquifers" (N99990THER) national aquifer.

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1977-02-24	1977-02-24	3
Field/Lab water-quality samples	1977-02-24	1977-03-14	2
Revisions	Unavailable (site:0) (timeseries:0		

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USGS 322215103502701 22S.30E.24.3334 P-14



USGS 322418103523201 22S.30E.10.31131

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°24'18", Longitude 103°52'32" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011 Well depth: 77 feet Land surface altitude: 3,133 feet above NAVD88. Well completed in "Other aquifers" (N99990THER) national aquifer. Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1948-12-23	1992-12-08	21
Field/Lab water-quality samples	1972-09-12	1972-09-12	1
Revisions	Unavailable (site:0) (timeseries:0		

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USGS 322418103523201 22S.30E.10.31131



USGS 322425103554401 22S.29E.12.24444

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°24'25", Longitude 103°55'44" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011 Well depth: 250 feet Land surface altitude: 3,168 feet above NAVD88. Well completed in "Other aquifers" (N99990THER) national aquifer. Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count	
Field groundwater-level measurements	1949-05-18	1949-05-18	3	
Revisions	Unavailable (site:0) (timeseries:			

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USGS 322425103554401 22S.29E.12.24444



USGS 322426103540201 22S.30E.08.23311

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°24'26", Longitude 103°54'02" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011 Well depth: 181 feet Land surface altitude: 3,152 feet above NAVD88. Well completed in "Other aquifers" (N99990THER) national aquifer. Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count	
Field groundwater-level measurements	1949-05-18	1959-04-14	6	
Revisions	Unavailable (site:0) (timeseries:			

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USGS 322426103540201 22S.30E.08.23311



USGS 322432103543301 22S.30E.07.242224

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°24'32", Longitude 103°54'33" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011 Well depth: 176 feet Land surface altitude: 3,128 feet above NAVD88. Well completed in "Other aquifers" (N99990THER) national aquifer. Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count	
Field groundwater-level measurements	1949-05-18	1998-01-28	18	
Revisions	Unavailable (site:0) (timeseries:			

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USGS 322447103550601 22S.30E.06.344434

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°24'47", Longitude 103°55'06" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011 Well depth: not determined. Land surface altitude: 3,152 feet above NAVD88. Well completed in "Other aquifers" (N99990THER) national aquifer. Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count	
Field groundwater-level measurements	1949-05-20	1949-05-20	3	
Revisions	Unavailable (site:0) (timeseries:			

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USGS 322447103550601 22S.30E.06.344434


USGS 322450103544401 22S.30E.06.444222

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°24'50", Longitude 103°54'44" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011 Well depth: not determined. Land surface altitude: 3,139 feet above NAVD88. Well completed in "Other aquifers" (N99990THER) national aquifer. Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1949-05-18	1949-05-18	3
Field/Lab water-quality samples	1972-09-19	1972-09-19	1
Revisions	Unavailable (site:0) (timese	eries:0)

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center Email questions about this site to <u>New Mexico Water Science Center Water-Data</u> <u>Inquiries</u>



USGS 322450103544401 22S.30E.06.444222



Released to Imaging: 6/11/2021 9:33:19 AM Period of approved data

USGS 322453103534301 22S.30E.05.44143

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°24'53", Longitude 103°53'43" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011 Well depth: not determined. Land surface altitude: 3,122 feet above NAVD88. Well completed in "Other aquifers" (N99990THER) national aquifer. Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1949-05-19	1998-01-28	21
Revisions	Unavailable (site:0) (timese	eries:0)

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center Email questions about this site to <u>New Mexico Water Science Center Water-Data</u> <u>Inquiries</u>

USGS 322453103534301 22S.30E.05.44143



Released to Imaging: 6/11/2021 9:33:19 AM Period of approved data

USGS 322456103535901 22S.30E.05.43114

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°24'56", Longitude 103°53'59" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011 Well depth: 225 feet Land surface altitude: 3,117 feet above NAVD88. Well completed in "Other aquifers" (N99990THER) national aquifer. Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1949-05-18	2015-12-17	27
Revisions	Unavailable (site:0) (timese	eries:0)

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center Email questions about this site to <u>New Mexico Water Science Center Water-Data</u> <u>Inquiries</u>

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cerved by OCD: 4/21/2021 8:34:59 AM

USGS 322456103535901 22S.30E.05.43114



Released to Imaging: 6/11/2021 9:33:19 AM Period of approved data

USGS 322513103543201 22S.30E.05.13333

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°25'13", Longitude 103°54'32" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011 Well depth: not determined. Land surface altitude: 3,160 feet above NAVD88. Well completed in "Other aquifers" (N99990THER) national aquifer. Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1949-05-18	1949-05-18	3
Revisions	Unavailable (site:0) (timese	eries:0)

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center Email questions about this site to <u>New Mexico Water Science Center Water-Data</u> <u>Inquiries</u>

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Received by OCD: 4/21/2021 8:34:59 AM

USGS 322513103543201 22S.30E.05.13333



Released to Imaging: 6/11/2021 9:33:19 AM Period of approved data



				(q	uarters ai	e smalles	=NE 3=SV st to larges	t)	(NAD8		M in meters)	
Well Tag		Number		-	-	-	ec Tws	0	(055	X	Y	
	C 02	111		2	2	2 3	3 228	30E	6055	05	3580336* 🌍	
Driller Lic	ense:			Drill	er Con	npany:						
Driller Nar	ne:	WINSTC	N BROS									
Drill Start	Date:			Drill	Finish	Date:	1	1/30/196	2	Plu	g Date:	
Log File Da	ate:			РСУ	V Rev I	Date:					irce:	Shallow
Pump Type				Pipe	Discha	arge Siz	ze:			Est	imated Yield:	29 GPM
Casing Size		8.75		-	h Well	-		48 feet		Der	oth Water:	155 feet
				.1.				-		-		
	Meter	Number	r:	552			Meter	Make:		SE	INSUS	
	Meter	· Serial N	umber:	148024	45		Meter	Multipli	er:	10	0.0000	
	Numb	er of Dia	als:	5			Meter	Туре:		Di	version	
	Unit o	of Measu	re:	Gallon	s		Return	n Flow P	ercent:			
	Usage	Multipl	ier:				Readir	ng Frequ	ency:			
_												
Meter I	Reading	s (in Acı	e-Feet)									
Read	l Date	Year	Mtr Re	eading	Flag	Rdr	Comm	ient			Mtr	Amount Onlin
	1/1998	1999		3519	А	ms						0
)/1999	1999		10119	А	ms						2.025
)/1999	1999		17046		ms						2.126
	2/2000	1999		23122		ms						1.865
	1/2000	2000		29277		mb	,					1.889
)/2000)/2000	2000		38063		RPT						2.696
)/2000 L/2000	2000		45705		RPT RPT						2.345 2.456
-	1/2000	2000 2001		53709 61935		RPT						2.430
)/2001	2001		63804	A	RPT						0.574
	1/2001	2001		63804		RPT						0.574
	1/2002	2001		3924	R			Rollover				12.312
	3/2002	2002		12315	A	RPT						2.575
	1/2002	2002		12571	A	rm						0.079
	1/2003	2002		14740	А	RPT	,					0.666
	1/2004	2003		14740	А	ab						0
04/01	1/2004	2004		14740	А	RPT						0
10/30)/2004	2004		14740	А	RPT	,					0
03/31	1/2005	2005		14740	А	RPT	,					0
10/30)/2005	2005		14740	А	RPT	,					0
12/31	1/2005	2005		14740	А	RPT						0
07/07	7/2006	2006		14740	А	tw						0
11/01	/2006	2006		14740	А	RPT						0
)/2007	2007		14740	А	RPT						0
09/30)/2007	2007		14740	А	RPT						0

10/01/0005				
12/31/2007	2007	14740	А	RPT
03/31/2008	2008	14740	А	RPT
06/30/2008	2008	14740	А	RPT
09/30/2008	2008	14740	А	RPT
12/31/2008	2008	14740	А	RPT
03/31/2009	2009	14740	А	RPT
06/30/2009	2009	14740	А	RPT
09/30/2009	2009	14740	А	RPT
03/31/2010	2010	14740	А	tw
07/09/2010	2010	14740	А	RPT
10/01/2010	2010	14740	А	RPT
12/31/2010	2010	14740	А	RPT
03/30/2011	2011	14740	А	tw
06/30/2011	2011	14740	А	RPT
01/09/2012	2011	14740	А	RPT
03/31/2012	2012	14740	А	RPT
07/03/2012	2012	14740	А	RPT
01/10/2013	2012	14740	А	RPT
04/08/2013	2013	14740	А	RPT
	2013 2013	14740 14740	A A	RPT RPT
07/11/2013	2013	14740		RPT
07/11/2013	2013	14740		RPT Amount
07/11/2013	2013	14740 Year 1999		RPT Amount 6.016
07/11/2013	2013	14740 Year 1999 2000		RPT Amount 6.016 9.386
07/11/2013	2013	14740 Year 1999		RPT Amount 6.016
	2013	14740 Year 1999 2000 2001		RPT Amount 6.016 9.386 15.410
07/11/2013 x	2013	14740 Year 1999 2000 2001 2002		RPT Amount 6.016 9.386 15.410 3.320
07/11/2013 x	2013	14740 Year 1999 2000 2001 2002 2003		RPT Amount 6.016 9.386 15.410 3.320 0
07/11/2013	2013	14740 Year 1999 2000 2001 2002 2003 2004		RPT Amount 6.016 9.386 15.410 3.320 0 0 0
07/11/2013 x	2013	14740 Year 1999 2000 2001 2002 2003 2004 2005		RPT Amount 6.016 9.386 15.410 3.320 0 0 0 0 0 0
07/11/2013 x	2013	14740 Year 1999 2000 2001 2002 2003 2004 2005 2006		RPT Amount 6.016 9.386 15.410 3.320 0 0 0 0 0 0 0 0 0 0 0 0 0
07/11/2013	2013	14740 Year 1999 2000 2001 2002 2003 2004 2005 2006 2007		RPT Amount 6.016 9.386 15.410 3.320 0 0 0 0 0 0 0 0 0 0 0 0 0
07/11/2013	2013	14740 Year 1999 2000 2001 2002 2003 2004 2005 2006 2006 2007 2008		RPT Amount 6.016 9.386 15.410 3.320 0 0 0 0 0 0 0 0 0 0 0 0 0
07/11/2013	2013	14740 Year 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009		RPT Amount 6.016 9.386 15.410 3.320 0 0 0 0 0 0 0 0 0 0 0 0 0
07/11/2013	2013	14740 Year 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010		RPT Amount 6.016 9.386 15.410 3.320 0 0 0 0 0 0 0 0 0 0 0 0 0

*UTM location was derived from PLSS - see Help

x

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.



			••			NE 3=SW to largest)	,	(NAD83 U	TM in meters)	
Well Tag	POD	Number	Q64	Q16 Q4	4 Sec	c Tws	Rng	X	Y	
	C 0	3015	1	4 3	22	228	30E	606099	3582353*	
^x Driller Lic Driller Naı		331	Driller	Compa	nny:	SBO CO	- /	DBA STE	WART BROT	HERS DRILLING
Drill Start	Date:	01/21/2004	Drill F	inish D	ate:	0	1/25/2004	4 Pl	ug Date:	
Log File D	ate:	03/04/2004	PCW	Rcv Dat	e:			So	urce:	Artesian
Pump Type	Pump Type:			ischarg	e Size	e: Es			timated Yield	1:
Casing Size	e:	6.00	Depth	Well:		13	316 feet	De	epth Water:	262 feet
x	Wate	er Bearing Stratif	ïcations:]	Гор	Bottom	Descr	iption		
				1	362	385	Other/	Unknown		
x		Casing Per	forations:	[Гор	Bottom				
					261	386				
x										

*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.



			(quarters a (quarters				(NAD83 I	(NAD83 UTM in meters)				
Well Tag	POD	Number		4 Q16 Q4		0,		X	Y			
8	C 0.	3587 POD1	1 4		29	23S	-	593338	3570754 🌍			
Driller Lic	ense:	1348	Driller Co	mpar	ıy:	TAY	LOR V	WATER WE	LL SERVICE			
Driller Na	me:	TAYLOR, CLIN	TON E. (LD)									
Drill Start	Date:	04/13/2013	Drill Finis	h Dat	te:	04	4/14/20	13 P	ug Date:			
Log File D	ate:	05/07/2013	PCW Rev	Date	:			Se	ource:	Shallow		
Ритр Тур	e:		Pipe Discl	narge	Size:			E	stimated Yield:	1 GPM		
Casing Siz	e:	4.00	Depth We	11:		9	9 feet	D	epth Water:	44 feet		
x	Wate	r Bearing Stratif	fications:	To	op E	Bottom	Desc	ription				
				ç	98	99	Lime	stone/Dolor	nite/Chalk			
ĸ		Casing Per	forations:	То	op E	Bottom						
				\$	39	99						

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			(quarters	are 1=N	W 2=N	VE 3=SW	(4=SE)			
			(quarter	s are sma	allest to	o largest)		(NAD83 U	TM in meters)	
Well Tag	POD	Number	Q64 Q	16 Q4	Sec	Tws	Rng	Х	Y	
	C 0	3587 POD2	1	2 4	19	23S	29E	592213	3572706 🌍	
x Driller Lic	ense:	1348	Driller C	ompai	ıy:	TAY	LOR V	VATER WE	LL SERVICE	
Driller Na	me:	TAYLOR, CLIN	TON E. (LD)						
Drill Start	Date:	04/11/2013	Drill Fini	ish Da	te:	04	4/13/201	13 Pl	ug Date:	
Log File D	ate:	05/07/2013	PCW Rc	v Date	:			So	urce:	Shallow
Ритр Тур	e:		Pipe Disc	charge	Size:			Es	timated Yield:	20 GPM
Casing Siz	e:	4.00	Depth W	ell:		7′	feet	De	pth Water:	16 feet
ĸ	Wate	er Bearing Stratif	fications:	Te	op I	Bottom	Desci	ription		
				(51	65	Sands	stone/Grave	/Conglomerate	
x		Casing Per	forations:	To	op I	Bottom				
					51	71				

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			(quarters	are 1=N	W 2=N	JE 3=SW	7 4=SE)				
			(quarter	s are sm	allest to	o largest	(NAD83 UTM in meters)				
Well Tag	POD	Number	Q64 Q	16 Q4	Sec	Tws	Rng	Х	Y		
	C 0	3587 POD3	2	4 1	07	22S	29E	601447	3586271 🧧		
Driller Lic	ense:	1348	Driller C	ompa	ny:	TAY	LOR V	WATER WE	LL SERVICE		
Driller Na	me:	TAYLOR, CLIN	TON E. (LD)							
Drill Start	Date:	04/04/2013	Drill Fin	ish Da	te:	0-	4/04/20	13 Pl	ug Date:		
Log File D	ate:	05/07/2013	PCW Rc	v Date	:			So	urce:	Shallow	
Ритр Тур	e:		Pipe Dise	charge	Size:			Es	timated Yield:	3 GPM	
Casing Siz	e:	2.00	Depth W	ell:		8) feet	De	pth Water:	47 feet	
x	Wate	er Bearing Stratif	fications:	Т	op I	Bottom	Desci	ription			
					65	80	Other	r/Unknown			
x		Casing Per	forations:	Т	op I	Bottom					
					65	80	1				

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.



			(1	ers are 1= rters are s				(NAD83 UT		
Well Tag	POD	Number	••	Q16 Q		0	·	X	Y	
C	C 0	3587 POD4	2	4	4 14	22S	29E	599006	3583977 🌍	
Driller Lice	ense:	1348	Driller	· Comp	any:	TA	YLOR V	VATER WEL	L SERVICE	
Driller Nar	ne:	TAYLOR, CLIN	TON E. (I	LD)						
Drill Start	Date:	04/01/2013	Drill F	inish D	ate:	0	4/02/20	13 Plu	g Date:	
Log File Da	ate:	05/07/2013	PCW	Rcv Da	te:			Sou	irce:	
Ритр Туре	e:		Pipe D	lischar	ge Size:	:		Est	imated Yield:	5 GPM
Casing Size	e:	2.00	Depth	Well:		7	9 feet	Dej	oth Water:	57 feet
x		Casing Per	forations:		Top 1	Botton	1			
					59	79	3			

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.



Well Tag	POD	Number	(q	uarters a	re smalles	=NE 3=SW 4=SE t to largest) c Tws Rng	·	TM in meters) Y	
-		679 POD	-	-	2 14	0	603567	3581547 🌍	
Driller Licen Driller Name		1654	Drill	ler Coi	mpany:		ORKING FOR INSTRUC	HIRESIRMA	N DRILLING
Drill Start D	ate:	10/23/20	013 Dril	Finisl	h Date:	10/29/2	2013 Pl	ug Date:	
Log File Dat	e:	11/07/20	013 PCV	V Rev	Date:		So	ource:	Shallow
Pump Type:			Pipe	Disch	arge Siz	e:	Es	timated Yield:	20 GPM
Casing Size:		6.00	Dep	th Wel	l:	700 fee	t De	epth Water:	575 feet
	Water	r Bearing	g Stratifications:		Тор	Bottom Des	scription		
					565	665 Sar	ndstone/Grave	l/Conglomerate	
		Cas	ing Perforations	:	Тор	Bottom			
					560	620			
					660	700			
	Motor	r Numbe	r: 16576			Meter Make	· N	IASTERMETE	2
		r Serial N						00.0000	Λ
		ber of Dia		24		Meter Multi	-		
						Meter Type:		oiversion	
		of Measu		IS		Return Flow			
-	Usage	e Multipl	ier:			Reading Fre	quency:		
Meter Re	ading	gs (in Acı	re-Feet)						
Read I	Date	Year	Mtr Reading	Flag	Rdr	Comment		Mtr	Amount Onlin
03/01/2	2014	2014	29030	А	RPT				0
07/01/2	2014	2014	49261	А	RPT				6.209
10/01/2	2014	2014	68901	А	RPT				6.027
12/31/2	2014	2014	84036	А	RPT				4.645
02/01/2	2015	2015	89806	А	RPT				1.771
03/02/2	2015	2015	92350	А	RPT				0.781
04/01/2	2015	2015	96582	А	RPT				1.299
04/30/2	2015	2015	104711	А	RPT				2.495
05/31/2	2015	2015	111086	А	RPT				1.956
07/01/2	2015	2015	118700	А	RPT				2.337
08/01/2	2015	2015	123816	А	RPT				1.570
08/31/2	2015	2015	130025	А	RPT				1.905
10/01/2	2015	2015	135622	А	RPT				1.718
× **YTE) Met	er Amou	nts: Year		Amount				
			2014		16.881				
			2015		15.832				

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.

POINT OF DIVERSION SUMMARY

•

	5		WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220					BH or PH Name: Date: BH01 3/3/2021 Site Name: James Ranch Unit DI 1A RP or Incident Number: Vertical Statement St				
								LTE Job Number:	TE01292			
Lat/Long:	LITH	IOLOG	SIC / SOIL	Field Screer		G		Logged By Hole Diameter:	SL	Method: Total Depth:	Hand Auger	
32.379690,·	-103.885744			Chloride, Pl				4"		4'		
Comments:		rooning			factor							
	nloride field so	reening		de 60% error	Tactor	×	r					
Moisture Content Chloride	(ppm) Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth ft bgs)	USCS/Rock Symbol			Lithology/F	Remarks		
D <1	86 1.9	N	BH01 BH01A	2' - - - - - - - - - - - - - - - - - - -	0 1 2 3 4 5 6 7 8 9 10 11	SP-SC	0-4'	Sandy clay, m- no stain, low p				

115		5 Car	WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220					BH or PH Name: Date: BH02 3/3/2021 Site Name: James Ranch Unit DI 1A RP or Incident Number: LTE Job Number:			
	LITHOLOG	GIC / SOII	SAMPI II		G		LTE Job Number: Logged By	SL	Method:	Hand Auger	
Lat/Long:			Field Screer	ning:	-		Hole Diameter:	- •	Total Depth:		
32.379685, -103.8 Comments:	885749		Chloride, Pll	D			4"		4'		
TD @ 4', chloride	field screening	y values inclue	de 60% error	factor	1						
Moisture Content Chloride (ppm)	Vapor (ppm) Staining	Sample #	Sample Depth (ft bgs)	Depth ft bgs)	USCS/Rock Symbol			Lithology/F			
D <186	0.8 N	BH02A	2' - - - - - - - - - - - - - - - - - - -	0 1 2 3 4 5 6 7 8 9 10 11	SP-SC		Sandy clay, mostain, low pure inclusions				

Released to Imaging: 6/11/2021 9:33:19 AM

wsp

		PHOTOGRAPHIC LOG	
XTO Energ	ıv. Inc.	James Ranch Unit DI 1A	TE012921002
		Eddy County, New Mexico	
Photo No.	Date		
1	January 15	2021	
1	– March 3,	2021	
area.	ew of flare rel	asc in the second secon	



wsp

	PHOTOGRAPHIC LOG	
	James Ranch Unit DI 1A	TE012921002
XTO Energy, Inc.	Eddy County, New Mexico	





🔅 eurofins

Project Id:

Project Location:

Contact:

Environment Testing Xenco

> 1082151001 Dan Moir

Certificate of Analysis Summary 684890

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WSP USA, Dallas, TX

Project Name: JRU 01 AL Tank Battery

Date Received in Lab: Fri 01.15.2021 12:40

Report Date: 01.19.2021 07:51

Project Manager: Jessica Kramer

	Lab Id:	684890-0	01	684890-0	02		
Analysis Requested	Field Id:	SS01		SS02			
Anutysis Requested	Depth:	0.3- ft		0.3- ft			
	Matrix:	SOIL		SOIL			
	Sampled:	01.15.2021	11:23	01.15.2021	11:26		
BTEX by EPA 8021B	Extracted:	01.15.2021	13:00	01.15.2021	13:00		
	Analyzed:	01.16.2021	00:41	01.16.2021	01:04		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00199	0.00199	<0.00201	0.00201		
Toluene		< 0.00199	0.00199	< 0.00201	0.00201		
Ethylbenzene		< 0.00199	0.00199	< 0.00201	0.00201		
m,p-Xylenes		< 0.00398	0.00398	< 0.00402	0.00402		
o-Xylene		< 0.00199	0.00199	< 0.00201	0.00201		
Total Xylenes		< 0.00199	0.00199	< 0.00201	0.00201		
Total BTEX		< 0.00199	0.00199	< 0.00201	0.00201		
Chloride by EPA 300	Extracted:	01.15.2021	15:00	01.15.2021	15:00		
	Analyzed:	01.15.2021	21:31	01.15.2021	21:36		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		34.4	10.0	44.4	10.1		
TPH by SW8015 Mod	Extracted:	** ** **	**	01.15.2021	16:00		
	Analyzed:	01.15.2021	19:24	01.15.2021	19:44		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<50.3	50.3	< 50.1	50.1		
Diesel Range Organics (DRO)		87.0	50.3	<50.1	50.1		
Motor Oil Range Hydrocarbons (MRO)		<50.3	50.3	<50.1	50.1		
Total GRO-DRO		87.0	50.3	<50.1	50.1		
Total TPH		87.0	50.3	<50.1	50.1		

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jession Vramer

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eurofins Environment Testing Xenco

Analytical Report 684890

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for

WSP USA

Project Manager: Dan Moir

JRU 01 AL Tank Battery 1082151001

01.19.2021

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins Environment Testing Xenco

01.19.2021 Project Manager: **Dan Moir WSP USA** 2777 N. Stemmons Freeway, Suite 1600 Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): 684890 JRU 01 AL Tank Battery Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 684890. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 684890 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Sample Cross Reference 684890

WSP USA, Dallas, TX

JRU 01 AL Tank Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	01.15.2021 11:23	0.3 ft	684890-001
SS02	S	01.15.2021 11:26	0.3 ft	684890-002

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CASE NARRATIVE

Client Name: WSP USA Project Name: JRU 01 AL Tank Battery

 Project ID:
 1082151001

 Work Order Number(s):
 684890

 Report Date:
 01.19.2021

 Date Received:
 01.15.2021

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 684890

WSP USA, Dallas, TX

JRU 01 AL Tank Battery

Sample Id: SS01 Lab Sample Id: 684890-001	Matrix: Date Co	Soil llected: 01.15	5.2021 11:23		Date Received:01.15.2021 12:40 Sample Depth: 0.3 ft			
Analytical Method: Chloride by EF	PA 300					Prep Method: E30	0P	
Tech: MAB								
Analyst: MAB		Date Prep: 01.15.2021 15:00				% Moisture: Basis: Wet	Weight	
Seq Number: 3148036						Dusis. Wet	weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	34.4	10.0		mg/kg	01.18.2021 10:45		1
Analytical Method:TPH by SW80Tech:CACAnalyst:CACSeq Number:3148053	15 Mod	Date Pre	ep: 01.15	5.2021 12:00		Prep Method: SW3 % Moisture: Basis: Wet	8015P Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3		mg/kg	01.15.2021 19:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	87.0	50.3		mg/kg	01.15.2021 19:24		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3		mg/kg	01.15.2021 19:24	U	1
Total GRO-DRO	PHC628	87.0	50.3		mg/kg	01.15.2021 19:24		1
Total TPH	PHC635	87.0	50.3		mg/kg	01.15.2021 19:24		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
	•	cubittuniou	•			•	8	
1-Chlorooctane		111-85-3	107	%	70-135	-	0	

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WSP USA, Dallas, TX

JRU 01 AL Tank Battery

01.15.2021 13:00

% Moisture:

Wet Weight

Basis:

Sample Id: SS01	Matrix: Soil		Date Received:01.15.2021 12:40		
Lab Sample Id: 684890-001	Date Collected: 01.15.20	021 11:23	Sample Depth: 0.3 ft		
Analytical Method: BTEX by EPA 8021B			Prep Method: SW5035A		

Date Prep:

MAB Tech: MAB Analyst: Seq Number: 3148046

Parameter **Cas Number** Result RL Dil Units **Analysis Date** Flag Benzene 71-43-2 < 0.00199 0.00199 01.16.2021 00:41 mg/kg U 1 Toluene 108-88-3 < 0.00199 0.00199 01.16.2021 00:41 U 1 mg/kg Ethylbenzene 100-41-4 < 0.00199 0.00199 01.16.2021 00:41 U 1 mg/kg m,p-Xylenes 179601-23-1 < 0.00398 0.00398 01.16.2021 00:41 U mg/kg 1 o-Xylene 95-47-6 < 0.00199 0.00199 mg/kg 01.16.2021 00:41 U 1 Total Xylenes 1330-20-7 U < 0.00199 0.00199 mg/kg 01.16.2021 00:41 1 Total BTEX < 0.00199 0.00199 01.16.2021 00:41 U 1 mg/kg Cas Number Surrogate % Recovery Units Limits Analysis Date Flag 460-00-4 70-130 01.16.2021 00:41 4-Bromofluorobenzene 95 % 540-36-3 101 70-130 01.16.2021 00:41 1,4-Difluorobenzene %

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Environment Testing

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Certificate of Analytical Results 684890

WSP USA, Dallas, TX

JRU 01 AL Tank Battery

Sample Id: SS02 Lab Sample Id: 684890-002	Matrix: Date Co	Soil ollected: 01.15	5.2021 11:26		Date Received:01.15.2021 12:40 Sample Depth: 0.3 ft			
Analytical Method: Chloride by EP	A 300					Prep Method: E300)P	
Tech: MAB								
Analyst: MAB		Date Pr	rep: 01.15	5.2021 15:00		% Moisture: Basis: Wet	Weight	
Seq Number: 3148036							weight	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	44.4	10.1		mg/kg	01.18.2021 10:51		1
Analytical Method:TPH by SW801Tech:CACAnalyst:CACSeq Number:3148053	5 Mod	Date Pr	rep: 01.15	5.2021 16:00		Prep Method: SW8 % Moisture: Basis: Wet	8015P Weight	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	01.15.2021 19:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1		mg/kg	01.15.2021 19:44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	01.15.2021 19:44	U	1
Total GRO-DRO	PHC628	< 50.1	50.1		mg/kg	01.15.2021 19:44	U	1
Total TPH	PHC635	<50.1	50.1		mg/kg	01.15.2021 19:44	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	s Analysis Date	Flag	
1-Chlorooctane		111-85-3	112	%	70-135	01.15.2021 19:44		
o-Terphenyl		84-15-1	108	%	70-135	01.15.2021 19:44		

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WSP USA, Dallas, TX

JRU 01 AL Tank Battery

01.15.2021 13:00

% Moisture:

Wet Weight

Basis:

Sample Id:SS02Lab Sample Id:684890-002	Matrix: Soil Date Collected: 01.15.2021 11:26	Date Received:01.15.2021 12:40 Sample Depth: 0.3 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5035A
Tech: MAB		

Date Prep:

Analyst: MAB Seq Number: 3148046

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	01.16.2021 01:04	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	01.16.2021 01:04	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	01.16.2021 01:04	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	01.16.2021 01:04	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	01.16.2021 01:04	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	01.16.2021 01:04	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	01.16.2021 01:04	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	89	%	70-130	01.16.2021 01:04		
1,4-Difluorobenzene		540-36-3	100	%	70-130	01.16.2021 01:04		

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Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected						
RL Reporting Limit							
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection				
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitation				
DL Method Detection Limit							
NC Non-Calculable							
SMP Client Sample		BLK	Method Blank				
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate			
MD/SD Method Duplicate/Samp	ole Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate			
+ NELAC certification not offered for this compound.							

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 684890

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WSP USA

JRU 01 AL Tank Battery

Analytical Method: Seq Number: MB Sample Id:	Chloride by EPA 3 3148036 7719346-1-BLK	00		Matrix: nple Id:	Solid 7719346-1	I-BKS		Pr LCS	0P 5.2021 9346-1-BSD			
Parameter	MB	Spike	LCS	LCS	LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	Flag
Chloride	Result <10.0	Amount 200	Result 212	%Rec 106	Result 203	%Rec 102	90-110	4	Limit 20	mg/kg	Date 01.15.2021 18:57	
Analytical Method: Seq Number: Parent Sample Id:	Chloride by EPA 3 3148036 684808-015		Matrix: nple Id:	Soil 684808-0	15 S		Pi					
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1530	200	1730	100	1730	101	90-110	0	20	mg/kg	01.15.2021 19:14	
Analytical Method: Seq Number: Parent Sample Id:	Chloride by EPA 3 3148036 684808-025	00		Matrix: nple Id:	Prep Method: E300P ix: Soil Date Prep: 01.15.2021 Id: 684808-025 S MSD Sample Id: 684808-025						5.2021	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	690	202	874	91	894	103	90-110	2	20	mg/kg	01.15.2021 20:34	
Analytical Method: Seq Number: MB Sample Id:	TPH by SW8015 M 3148053 7719351-1-BLK	Matrix: Solid LCS Sample Id: 7719351-1-BKS					Prep Method: SW8015P Date Prep: 01.15.2021 LCSD Sample Id: 7719351-1-BSD					
Parameter	MB	Spike	LCS Result	LCS %Rec	LCSD	LCSD	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO) <50.0	Amount 1000	983	98	Result 934	%Rec 93	70-135	5	35	mg/kg	01.15.2021 13:39	
Diesel Range Organics	(DRO) <50.0	1000	1030	103	916	92	70-135	12	35	mg/kg	01.15.2021 13:39	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			mits	Units	Analysis Date	
1-Chlorooctane o-Terphenyl	101 93			91 01		113 87			-135 -135	% %	01.15.2021 13:39 01.15.2021 13:39	
Analytical Method: Seq Number:	nalytical Method:TPH by SW8015 Modeq Number:3148053				Solid 7719351-	-BLK		Pi	rep Metho Date Pro		8015P 5.2021	
Parameter			MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)		<50.0							mg/kg	01.15.2021 13:18	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference $\begin{array}{l} [D] = 100*(C-A) \ / \ B \\ RPD = 200* \ | \ (C-E) \ / \ (C+E) \ | \\ [D] = 100*(C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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WSP USA

JRU 01 AL Tank Battery

Analytical Method: TPH by SW8015 Mod								Prep Method: SW8015P							
Seq Number:	Number: 3148053				Matrix: Soil					Date Prep: 01.15.2021					
Parent Sample Id:	684808-01		MS San	nple Id:	684808-01	15 S		MSD Sample Id: 684808-015 SD							
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag		
Gasoline Range Hydrocarbo	ons (GRO)	<50.1	1000	1200	120	1120	112	70-135	7	35	mg/kg	01.15.2021 14:39			
Diesel Range Organics (DRO) <50.1		1000	1120	112	1080	108	70-135	4	35	mg/kg	01.15.2021 14:39				
Surrogate		MS %Rec		MS MSD Flag %Red						Analysis Date					
1-Chlorooctane			101		115		70-135		%	01.15.2021 14:39					
o-Terphenyl		1	08		104		70-135		%	01.15.2021 14:39					

Analytical Method:	BTEX by EPA 8021					Pi	rep Metho	od: SW	5035A			
Seq Number:	3148046]	Matrix:	Solid				Date Pr	ep: 01.1	15.2021	
MB Sample Id:	7719357-1-BLK	LCS San	nple Id:	7719357-1-BKS			LCSD Sample Id: 7719357-1-BSD					
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.110	110	0.104	104	70-130	6	35	mg/kg	01.15.2021 14:05	
Toluene	< 0.00200	0.100	0.106	106	0.102	102	70-130	4	35	mg/kg	01.15.2021 14:05	
Ethylbenzene	< 0.00200	0.100	0.0989	99	0.0955	96	71-129	3	35	mg/kg	01.15.2021 14:05	
m,p-Xylenes	< 0.00400	0.200	0.203	102	0.196	98	70-135	4	35	mg/kg	01.15.2021 14:05	
o-Xylene	< 0.00200	0.100	0.0987	99	0.0950	95	71-133	4	35	mg/kg	01.15.2021 14:05	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSD %Rec			imits	Units	Analysis Date	
1,4-Difluorobenzene	98		9	4		95		70	-130	%	01.15.2021 14:05	
4-Bromofluorobenzene	88		8	5		84		70	-130	%	01.15.2021 14:05	

Analytical Method: Seq Number:	BTEX by EPA 8021 3148046	Soil		Prep Method: SW5035A Date Prep: 01.15.2021								
Parent Sample Id:	684657-001	MS Sample Id: 684657-001 S				MSD Sample Id: 684657-001 SD						
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.100	0.115	115	0.123	122	70-130	7	35	mg/kg	01.15.2021 14:50	
Toluene	< 0.00201	0.100	0.105	105	0.112	111	70-130	6	35	mg/kg	01.15.2021 14:50	
Ethylbenzene	0.00489	0.100	0.0822	77	0.0947	89	71-129	14	35	mg/kg	01.15.2021 14:50	
m,p-Xylenes	0.0106	0.201	0.171	80	0.196	92	70-135	14	35	mg/kg	01.15.2021 14:50	
o-Xylene	0.00853	0.100	0.0841	76	0.0977	88	71-133	15	35	mg/kg	01.15.2021 14:50	
Surrogate				1S Rec	MS Flag	MSD %Ree			mits	Units	Analysis Date	
1,4-Difluorobenzene			ç	94		93		70	-130	%	01.15.2021 14:50	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

4-Bromofluorobenzene

 $\label{eq:c-A} \begin{array}{l} [D] = 100^{*}(C\text{-}A) \ / \ B \\ RPD = 200^{*} \ | \ (C\text{-}E) \ / \ (C\text{+}E) \ | \\ [D] = 100^{*} \ (C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$

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MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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01.15.2021 14:50

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70-130

%
AMALVSIS REQUEST Mork Order Com AMALVSIS REQUEST Program: UST/PSTRPPrownfields Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Cd Ca Cr Co Li Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tatil 1 / 2011 /			0 1					
Ci (Signature)				115/21 12:40		At	k	25 /h
el IIIPT/// PT/// ADaPT g SiO2 Na 1631	_	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	: (Signature)	Received by	(Signature)	Relinquished by:
Dam Moir Bill fb: (r diment) Kyle Lifted Work Odder Campany Name: XTO Energy Work Odder Campany Name: XTO Energy Program: USTPEST	Sr TI Sn U V 245.1/7470	- Ng SiO2	3 Cd Ca Cr Co Cu Fe Pb Mg d Cr Co Cu Pb Mn Mo Ni Se Infiliates and subcontractors. It assigns stand by the client if such losses are due to circum: by the client if such losses are due to circum: alyzed. These terms will be enforced unless p	1 AI Sb As Ba Be E CRA Sb As Ba Be Co in client company to Xenco, its a in client company to Xenco, but not ana submitted to Xenco, but not ana	CRA 13PPM Texas - CLP / SPLP 6010: 8Ru tes a valid purchase order froi ssume any responsibility for a ssume any responsibility for a charge of \$5 for each sample	to be analyzed Tu to be analyzed Tu uishment of samples constitu st of samples and shall not a spplied to each project and :	s) and Metal(s) ocument and relinque only for the co- iable only for the co-	Circle Method(Circle Signature of this d service. Xenco will be l Xenco. A minimum cha
Dan Moir Bill to: (r drivers) Kyle Littreal Work Order Company Name: XTO Energy VSP USA Company Name: XTO Energy Company Name: XTO Energy Program: USTPST [] RP [] rownin Midland, TX 79705 Enalt Adress: G22 W. Mermod SI. Program: USTPST [] RP [] rownin 422 /236-3849 Enalt Enalt Remover, Hill Qwyp, com, Dan Mol@wsp, com Nate of Project: Reporting Level II. Program: USTPST [] RP [] rownin 122 /236-3849 Enalt Remover, Hill Qwyp, com, Dan Mol@wsp, com Nate of Project: Reporting Level II. Project: Reporting Level II. Project: Reporting Level II. Project: Reporting Level II. Project: Nate of Project: Reporting Level II. Project: Reporting Level II. Project: Napr 124 W.NP 2b3 53 51 V 7 24. Rush: Rush: Reporting Level II. Project: Napr 124 W.NP 2b3 53 51 V 7 24. Rush: Thermoneter ID Napr Napr Napr Napr 124 W.NP 2b3 53 51 V 7 24. Concerdion Factor -2.3 1 X X 1								Total 200 7 16
Dan Moir Bill to: (r direven) Kyle Liftreil Work Order C. VSP USA Company Name: XTO Energy Program: UST/PST Program: UST/PST Viso North A Street Address: S22 W. Mermod S. Sate of Project: Program: UST/PST Viso Orth A Street City, Sate ZIP: Carisbad, NM 88220 Sate of Project: Reporting:Level II Program: UST/PST Viso Orth A Street Finalt Licemy Hil@viso.com. Dan Mol@viso.com AnALYSIS REQUEST NoaPT Viso Orth A Street Finalt Licemy Hil@viso.com AnALYSIS REQUEST NoaPT Viso Orth A Street No Well to:: (Fis) No Well to:: (Fis) No Well co:: (Fis) No NoaPT Viso NoN Correction Factor: -C2 AnALYSIS REQUEST AnALYSIS REQUEST Viso NoN Correction Factor: -C2 Containers: AnALYSIS REQUEST AnALYSIS REQUEST Viso NoN Correction Factor: -C2 Containers: -C2 AnALYSIS REQUEST AnALYSIS REQUEST Viso NoN Correction Factor: -C2 Containers: -C2								
Dan Moir Bill to: (r drinnen) Kyle Liftrell Work Order Company Name: XTO Energy 300 North A Street Address: S22 W. Mermod St. Program: UST/PST								
Dan Moir Bill to: (r different) Kyle Lithell Work Order Cc /NSP USA Company Name: XTO Energy Frogram: UST/PST Program: UST/PST					/			
Dan Moir Bill to: (r driven) Kyle Littreil Work Order Cc. NSP USA Company Name: XTO Energy Program: UST/PST Progra: UST/PST Program: UST/PST					/			
Dan Moir Bill to: (if affreen) Kyle Littrell Work Order C NSP USA Company Name: XTO Energy Fragram: UST/PS1 Program: UST/PS1	discrite			-)
Dan Moir Bill to: (f different) Kyle Littrell Work Order C. NSP USA Company Name: XTO Energy Program: UST/PST Program: UST/PST State of Project: City, State ZIP: Carlsbad, NM 88220 Program: UST/PST Program: UST/PST JEU C1 Finait Jeremy Hill Die Date: Program: UST/PST Project: JEU C1 No Wet los: Ves No Wat No Project: Jeremy Hill Due Date: Image: Image: ADIes ADIes Ves No Wet los: Ves No Vest los: Ves NA Connection Factor: -O - - - Ves No Vest los: -O - - Ves No Vest los: -O - - Ves No No Vest los: - - - Ves No No Vest los: - - - Ves No No - - - - Ves No No - - - - Ves No No - - - - <	discrete			-	1	-		2025
Dan Moir Bill to: (# different) Kyle Littrell Work Order C. VSP USA Company Name: XTO Energy Finality Street Address: S22 W. Memod St. Program: UST/PST Program:	Sample Comments			BTEX			ntification	Sample Ide
Dan Moir Bill to: (if different) Kyle Littrell Work Order Commany WSP USA Company Name: XTO Energy Work Order Commany 3300 North A Street Address: 52 W. Mermod St. State of Project: Midland, TX 79705 Ernait: Jeremy Hill@wsp.com. Dan.Moir@wsp.com Program: UST/PST Program: UST/PST V230-33849 Ernait: Jeremy Hill@wsp.com. Dan.Moir@wsp.com Dan.Moir@wsp.com Deliverables: EDD Deliverables: EDD Deliverables: EDD ADePT V20-01-PA1_Tank_&.uk-, Turn Around Vestor Pab.3535/47.24 Routine IV ADePT Deliverables: EDD DePT ADePT Leterny Hill Due Date: Jeremy Hill Due Date: Thermometer ID Hill Bab.	TAT starts the day recevied by lab, if received by 4:30pm			EPA 80 ⁻ (EPA 0) NIA	Yes	Sample Custody Se
arr. Dan Moir Bill to: (if affreent) Kyle Littrell Weil a: WSP USA Company Name: XTO Energy Work Order Commany 3300 North A Street Address: 522 W. Mermod St. Fraggram: UST/PST Program: UST/PST Midland, TX 79705 Email: Jeremy. Hill@wsp.com Carlsbad, NM 88220 State of Project: V300 North A Street Email: Jeremy. Hill@wsp.com Dan Moir@wsp.com Deliverables: EDD ADaPT State of Project: Cutine Turn Around Turn Around ADaPT Deliverables: EDD ADaPT CEIPT Temp Blank: Yes, No Wet Ice: Yes, No Thermometer ID Thermometer ID Thermometer ID Thermometer ID		1		15) =802	1	O N/A	Yes	Cooler Custody Sea
Manager: Dan Moir Bill to: (if different) Kyle Littrell Work Order Commany Name: ny Name: WSP USA Company Name: XTO Energy Frogram: UST/PST Work Order Commany Name: s: 3300 North A Street Address: S22 W. Mermod St. Frogram: UST/PST Important City, State ZIP: ate ZIP: Midland, TX 79705 Email: Leremy. Hill@wsp.com, Dan.Moir@wsp.com Program: UST/PST Important City, State ZIP: Name: JfLU O1 AL Tank & Leremy. Hill@wsp.com, Dan.Moir@wsp.com AndLYSIS REQUEST Deliverables: EDD ADaPT Name: Jeremy Hill Due Date: Important: Important: Important: Important:				!1)	NIN 0 0 7	No	(Yes	Received Intact:
Manager: Dan Moir Bill to: (if different) Kyle Littrell Work Order Comm ny Name: WSP USA Company Name: XTO Energy Work Order Comm s: 3300 North A Street Address: 522 W. Mermod St. State of Project: ate ZIP: Midland, TX 79705 City, State ZIP: Carlsbad, NM 88220 State of Project: (432) 236-3849 Email: Jeremy. Hill@wsp.com, Dan Moir@wsp.com Deliverables: EDD AdaPT Name: 'JRU O'N PN, Tank & .uk-, Turn Around Adutine NaPT Deliverables: EDD AdaPT Number: C.# NA VP 3 b 3 5 3 5 4 7 3 4 Routine Rush: Adutine Image: Anal YSIS REQUEST AnaPT Deliverables: EDD ADaPT 's Name: Jeremy Hill Due Date: Vorture Norture Model Model Model Image: Image: <td></td> <td></td> <td></td> <td>vrs</td> <td>(Index)</td> <td>ONI (Sal</td> <td>-</td> <td>Temperature (°C):</td>				vrs	(Index)	ONI (Sal	-	Temperature (°C):
Manager: Dan Moir Bill for: (if different) Kyle Littrell Work Order Commany my Name: WSP USA Company Name: XTO Energy Frogram: UST/PST Work Order Commany s: 3300 North A Street Address: 522 W. Mermod St. Frogram: UST/PST Program: UST/PST Program: UST/PST Program: UST/PST Prownfields ate ZIP: Midland, TX 79705 City, State ZIP: Carlsbad, NM 88220 Reporting:Level II Project: vame: Turn Around Turn Around Value Social Reporting:Level II Project: Number: Z.# NA®9 b 35 35 47 3 4 Routine Nash: Address: AnaLYSIS REQUEST AnaLysis Reporting: Level II Address:								SAMPLE REC
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Manager: Dan Moir Bill to: (if affreent) Kyle Littrell Work Order Comm ny Name: WSP USA Company Name: XTO Energy Work Order Comm s: 3300 North A Street Address: 522 W. Memod St. State of Project: ate ZIP: Midland, TX 79705 City, State ZIP: Carlsbad, NM 88220 Reporting:Level II evel III pt/UST (432) 236-3849 Email: Jeremy, Hill@wsp.com, Dan.Moir@wsp.com AnaLysis REQUEST Deliverables: EDD ADaPT Name: Name: Turn Around MALYSIS REQUEST AnaLysis Request Male International Internation International Internatinternational Internati					Rush:	101000		P.O. Number:
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Ianager: Dan Moir Bill to: (if different) Kyle Littrell Work Order Comments / Name: WSP USA Company Name: XTO Energy Program: UST/PST _RP _rownfields _RC 3300 North A Street Address: 522 W. Mermod St. State of Project:	RP	Level III	Re		City, State 2	79705	Midland, TX 7	City, State ZIP:
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Dan Moir Bill to: (if different) Kyle Littrell Work Order Com	"	_	Pro		Company N		WSP USA	Company Name:
	mments			rent) Kyle Littrell	Bill to: (if diffe		Dan Moir	Project Manager:
	1,045	JOXPOULT IN THE TOTAL	listody	Chain of Custody				

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: WSP USA	Acceptable Temperature R	ange: 0 - 6 degC
Date/ Time Received: 01.15.2021 12.40.00 PM	Air and Metal samples Acc	eptable Range: Ambient
Work Order #: 684890	Temperature Measuring de	evice used : T_NM_007
Sample Recei	pt Checklist	Comments
#1 *Temperature of cooler(s)?	.8	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6*Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	Samples received in bulk containers.
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	No	
#18 Water VOC samples have zero headspace?	N/A	

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: 01.15.2021

Checklist reviewed by: Jessica Kramer

Date: 01.18.2021

Received by OCD: 4/21/2021 8:34:59 AM

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-260-1

Laboratory Sample Delivery Group: TE012921002 Client Project/Site: James Ranch Unit DI 1A

For:

WSP USA Inc. 2777 N. Stemmons Freeway Suite 1600 Dallas, Texas 75207

Attn: Dan Moir

RAMER

Authorized for release by: 3/11/2021 5:43:39 PM

Jessica Kramer, Project Manager (432)704-5440 jessica.kramer@eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS **Review your project** results through Total Access Have a Question? Ask-The Expert Visit us at: www.eurofinsus.com/Env Released to Imaging: 6/11/2021 9:33:19 AM

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Sample Summary	20
Chain of Custody	21
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Client: WSP USA Inc. Project/Site: James Ranch Unit DI 1A

Deminitions/Glossary	1
Job ID: 890-260-1	
SDG: TE012921002	2

Qualifiers

Qualifiers		3
Subcontract		
Qualifier	Qualifier Description	4
F	RPD exceeded lab control limits.	
U	Analyte was not detected.	5
X	MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference	
Glossary		6
Abbreviation	These commonly used abbreviations may or may not be present in this report.	7
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	0
CFL	Contains Free Liquid	0
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	9
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	10
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	11
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	12
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	13
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	11
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	
TNTC	Too Numerous To Count	

Case Narrative

Client: WSP USA Inc. Project/Site: James Ranch Unit DI 1A

Job ID: 890-260-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-260-1

Receipt

The samples were received on 3/4/2021 3:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

Receipt Exceptions

The following samples analyzed for method BTEX8021 were received and analyzed from an unpreserved bulk soil jar: BH01 (890-260-1), BH01 A (890-260-2), BH02 (890-260-3) and BH02 A (890-260-4).

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Job ID: 890-260-1 SDG: TE012921002

Client Sample Results

Client: WSP USA Inc. Project/Site: James Ranch Unit DI 1A

Client Sample ID: BH01 Date Collected: 03/03/21 11:00 Date Received: 03/04/21 15:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 08:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 08:12	1
m,p-Xylenes	<0.00399	U	0.00399		mg/kg		03/09/21 16:00	03/10/21 08:12	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 08:12	1
Toluene	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 08:12	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 08:12	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 08:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	94		70 - 130				03/09/21 16:00	03/10/21 08:12	1
4-Bromofluorobenzene	96		70 - 130				03/09/21 16:00	03/10/21 08:12	1

Method: CHLORIDE E300 - General Subcontract Method

Analyte	Result Qu	ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.6	4.99	mg/kg		03/07/21 16:10	03/08/21 08:24	1
_							

Method: TPH 8015_NM_MOD	 General St 	ubcontract	t Method						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/10/21 17:00	03/11/21 06:15	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/10/21 17:00	03/11/21 06:15	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/10/21 17:00	03/11/21 06:15	1
Total TPH	<50.0	U	50.0		mg/kg		03/10/21 17:00	03/11/21 06:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 135				03/10/21 17:00	03/11/21 06:15	1
o-Terphenyl	95		70 - 135				03/10/21 17:00	03/11/21 06:15	1

Client Sample ID: BH01 A Date Collected: 03/03/21 11:15 Date Received: 03/04/21 15:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199		mg/kg		03/09/21 16:00	03/10/21 08:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/kg		03/09/21 16:00	03/10/21 08:33	1
m,p-Xylenes	<0.00398	U	0.00398		mg/kg		03/09/21 16:00	03/10/21 08:33	1
o-Xylene	<0.00199	U	0.00199		mg/kg		03/09/21 16:00	03/10/21 08:33	1
Toluene	<0.00199	U	0.00199		mg/kg		03/09/21 16:00	03/10/21 08:33	1
Total BTEX	<0.00199	U	0.00199		mg/kg		03/09/21 16:00	03/10/21 08:33	1
Total Xylenes	<0.00199	U	0.00199		mg/kg		03/09/21 16:00	03/10/21 08:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	94		70 - 130				03/09/21 16:00	03/10/21 08:33	1
4-Bromofluorobenzene	97		70 - 130				03/09/21 16:00	03/10/21 08:33	1
Method: CHLORIDE E300 -	General Subc	ontract Me	ethod						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.7		4.96		mg/kg		03/07/21 16:10	03/08/21 08:31	1
Method: TPH 8015_NM_MC)D - General Si	ubcontract	t Method						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
							-	-	

Eurofins Carlsbad

Job ID: 890-260-1 SDG: TE012921002

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Lab Sample ID: 890-260-1

Lab Sample ID: 890-260-2

Matrix: Solid

Matrix: Solid

Released to Imaging: 6/11/2021 9:33:19 AM

Client Sample Results

Client: WSP USA Inc. Project/Site: James Ranch Unit DI 1A

Client Sample ID: BH01 A

Date	Collected:	03/03/21	11:15
Date	Received:	03/04/21	15:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/10/21 17:00	03/11/21 05:34	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/10/21 17:00	03/11/21 05:34	1
Total TPH	<49.9	U	49.9		mg/kg		03/10/21 17:00	03/11/21 05:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 135				03/10/21 17:00	03/11/21 05:34	1
o-Terphenyl	84		70 - 135				03/10/21 17:00	03/11/21 05:34	1

Client Sample ID: BH02

Date Collected: 03/03/21 11:30 Date Received: 03/04/21 15:30

Method: BTEX 8021 - Ge	neral Subcontrac	ct Method							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 08:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 08:53	1
m,p-Xylenes	<0.00400	U	0.00400		mg/kg		03/09/21 16:00	03/10/21 08:53	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 08:53	1
Toluene	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 08:53	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 08:53	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 08:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	91		70 - 130				03/09/21 16:00	03/10/21 08:53	1
4-Bromofluorobenzene	101		70 - 130				03/09/21 16:00	03/10/21 08:53	1

Method: CHLORIDE E300 - General Subcontract Method

80

Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.9		4.95		mg/kg		03/07/21 16:10	03/07/21 20:46	1
Method: TPH 8015_NM_MOD ·	General S	ubcontrac	t Method						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/10/21 17:00	03/11/21 05:55	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/10/21 17:00	03/11/21 05:55	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/10/21 17:00	03/11/21 05:55	1
Total TPH	<50.0	U	50.0		mg/kg		03/10/21 17:00	03/11/21 05:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 135				03/10/21 17:00	03/11/21 05:55	1

70 - 135	03/10/21 17:00	03/11/21 05:55	1

Client Sample ID: BH02 A Date Collected: 03/03/21 11:45 Date Received: 03/04/21 15:30

o-Terphenyl

Method: BTEX 8021 - General Subcontract Method									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 09:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 09:14	1
m,p-Xylenes	<0.00399	U	0.00399		mg/kg		03/09/21 16:00	03/10/21 09:14	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 09:14	1
Toluene	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 09:14	1

Eurofins Carlsbad

Matrix: Solid

Lab Sample ID: 890-260-4

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Job ID: 890-260-1 SDG: TE012921002

Lab Sample ID: 890-260-2 Matrix: Solid

Lab Sample ID: 890-260-3

Matrix: Solid

Client Sample Results

RL

0.00200

0.00200

Limits

70 - 130

70 - 130

RL

5.03

RL

49.9

49.9

49.9

49.9

Limits

70 - 135

70 - 135

Client: WSP USA Inc. Project/Site: James Ranch Unit DI 1A

Method: BTEX 8021 - General Subcontract Method (Continued)

Method: CHLORIDE E300 - General Subcontract Method

Method: TPH 8015_NM_MOD - General Subcontract Method

Result Qualifier

<0.00200 U

<0.00200 U

%Recovery Qualifier

93

97

12.3

<49.9 U

<49.9 U

<49.9 U

<49.9 U

82

78

%Recovery

Result Qualifier

Result Qualifier

Qualifier

Client Sample ID: BH02 A Date Collected: 03/03/21 11:45 Date Received: 03/04/21 15:30

Analyte

Total BTEX

Surrogate 1,4-Difluorobenzene

Analyte

Chloride

Analyte

Total TPH

Surrogate

o-Terphenyl

1-Chlorooctane

Total Xylenes

4-Bromofluorobenzene

Diesel Range Organics (DRO)

Gasoline Range Hydrocarbons (GRO)

Motor Oil Range Hydrocarbons (MRO)

Lab Sample

D

D

D

Prepared

Prepared

Prepared

Prepared

03/10/21 17:00

03/10/21 17:00

03/10/21 17:00

Prepared

03/09/21 16:00 03/10/21 09:14

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03/09/21 16:00 03/10/21 09:14

03/07/21 16:10 03/08/21 08:38

03/10/21 17:00 03/11/21 06:15

03/10/21 17:00 03/11/21 06:15

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Job ID: 890-260-1 SDG: TE012921002

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Surrogate Summary

Client: WSP USA Inc. Project/Site: James Ranch Unit DI 1A

Method: BTEX 8021 - General Subcontract Method Matrix: SOIL

			Percent Surrogate Recovery (Acceptance Limits)	
		BFB		
Lab Sample ID	Client Sample ID	(70-130)		
690554-005 S	Matrix Spike	105		
690554-005 SD	Matrix Spike Duplicate	109		6
7722919-1-BKS	Lab Control Sample	106		
7722919-1-BLK	Method Blank	91		
7722919-1-BSD	Lab Control Sample Dup	110		
Surrogate Legend				

BFB = 4-Bromofluorobenzene

Method: BTEX 8021 - General Subcontract Method Matrix: Solid

			Percer	nt Surrogate Recovery (Acceptan	ce Limits)
		BFB	DFBZ		,
ab Sample ID	Client Sample ID	(70-130)	(70-130)		
-260-1	BH01	96	94		
)-260-2	BH01 A	97	94		
)-260-3	BH02	101	91		
0-260-4	BH02 A	97	93		

Surrogate Legend

BFB = 4-Bromofluorobenzene

DFBZ = 1,4-Difluorobenzene

Method: TPH 8015_NM_MOD - General Subcontract Method Matrix: Solid

Prep Type: Total/NA

			Pe
		1CO	OTPH
Lab Sample ID	Client Sample ID	(70-135)	(70-135)
890-260-1	BH01	108	95
890-260-2	BH01 A	92	84
890-260-3	BH02	83	80
890-260-4	BH02 A	82	78

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-260-1

SDG: TE012921002

Prep Type: Total/NA

Prep Type: Total/NA

Client: WSP USA Inc. Project/Site: James Ranch Unit DI 1A

Lab Sample ID: 7722919-1-BLK

Method: BTEX 8021 - General Subcontract Method

Matrix: SOIL								Prep Type: To	
Analysis Batch: 3153059								p Batch: 3153	
	BLANK	BLANK							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<.002	U	.002		mg/kg		03/09/21 16:00	03/10/21 05:49	1
Ethylbenzene	<.002	U	.002		mg/kg		03/09/21 16:00	03/10/21 05:49	1
m,p-Xylenes	<.004	U	.004		mg/kg		03/09/21 16:00	03/10/21 05:49	1
o-Xylene	<.002	U	.002		mg/kg		03/09/21 16:00	03/10/21 05:49	1
Toluene	<.002	U	.002		mg/kg		03/09/21 16:00	03/10/21 05:49	1
	BLANK	BLANK							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		70 - 130				03/09/21 16:00	03/10/21 05:49	1

Lab Sample ID: 7722919-1-BKS Matrix: SOIL Analysis Batch: 3153059

Analysis Batch: 3153059						Prep Batch: 3153059_P			
-	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	.1	0.107		mg/kg		107	70 - 130		
Ethylbenzene	.1	0.0967		mg/kg		97	71_129		
m,p-Xylenes	.2	0.199		mg/kg		100	70 - 135		
o-Xylene	.1	0.103		mg/kg		103	71 - 133		
Toluene	.1	0.0984		mg/kg		98	70 - 130		

	LCS LCS	
Surrogate	%Recovery Qua	lifier Limits
4-Bromofluorobenzene	106	70 - 130

Lab Sample ID: 7722919-1-BSD **Matrix: SOIL** Analysis Batch: 3153059

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	.1	0.108		mg/kg		108	70 - 130	1	35
Ethylbenzene	.1	0.103		mg/kg		103	71_129	6	35
m,p-Xylenes	.2	0.213		mg/kg		107	70 - 135	7	35
o-Xylene	.1	0.110		mg/kg		110	71 - 133	7	35
Toluene	.1	0.102		mg/kg		102	70 - 130	4	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	110		70 - 130

Lab Sample ID: 690554-005 S Matrix: SOIL Analysia Rataby 2152050

Analysis Batch: 3153059								: 3153059_P		
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<.00199		.1	0.0899		mg/kg		90	70 - 130	
Ethylbenzene	<.00199		.1	0.0846		mg/kg		85	71 - 129	
m,p-Xylenes	<.00398		.2	0.174		mg/kg		87	70 - 135	
o-Xylene	<.00199		.1	0.0899		mg/kg		90	71 - 133	
Toluene	<.00199		.1	0.0843		mg/kg		84	70 - 130	

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Job ID: 890-260-1 SDG: TE012921002

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 3153059_P

5 7

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Released to Imaging: 6/11/2021 9:33:19 AM

Client: WSP USA Inc. Project/Site: James Ranch Unit DI 1A

Lab Sample ID: 690554-005 S

Lab Sample ID: 690554-005 SD

Analysis Batch: 3153059

Analysis Batch: 3153059

Matrix: SOIL

Matrix: SOIL

4-Bromofluorobenzene

Surrogate

Method: BTEX 8021 - General Subcontract Method (Continued)

MS MS

%Recovery Qualifier

105

ient Sample ID:	CI				
· · · · · · · · · · · · · · · · · · ·					
Ргер Басс					
					Limita
					Limits
					70 - 130
le ID: Matrix Sp	Samp	Client			
Prep T					
· · · · · · · · · · · · · · · · · · ·			MOD	MOD	Onilles
%Rec.			MSD	MSD	Spike
%Rec Limits	D	Unit	Qualifier	Result	Added
	Prep Prep Bat le ID: Matrix S Prep Prep Bat %Rec	Prep Bat Sample ID: Matrix S Prep Prep Bat %Rec	Prep Prep Bat Client Sample ID: Matrix S Prep Prep Bat %Rec	Prep Prep Bat Client Sample ID: Matrix S Prep Prep Bat MSD %Rec	Prep Prep Bat Client Sample ID: Matrix S Prep Prep Bat MSD MSD %Rec

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<.00199		.0994	0.0614	XF	mg/kg		62	70 - 130	38	35
Ethylbenzene	<.00199		.0994	0.0628	Х	mg/kg		63	71 - 129	30	35
m,p-Xylenes	<.00398		.199	0.132	Х	mg/kg		66	70 - 135	27	35
o-Xylene	<.00199		.0994	0.0701		mg/kg		71	71 - 133	25	35
Toluene	<.00199		.0994	0.0601	Х	mg/kg		60	70 - 130	34	35
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene	109		70 - 130								

4-Bromofluorobenzene 109

Method: CHLORIDE E300 - General Subcontract Method

Lab Sample ID: 7722690-1-BLK Matrix: SOIL Analysis Batch: 3152792									Clie		ple ID: Mo Prep Ty ep Batch	be: Tot	tal/NA
		BLANK						_					
Analyte		Qualifier		RL		MDL				repared	Analyz		Dil Fac
Chloride	<5	U		5			mg/kg		03/0	7/21 16:1	0 03/07/21	17:27	1
Lab Sample ID: 7722690-1-BKS								Clier	nt Sa	nple ID	: Lab Con	trol Sa	ample
Matrix: SOIL											Prep Ty		
Analysis Batch: 3152792										Pr	ep Batch		
			Spike		LCS	LCS					%Rec.		_
Analyte			Added	I	Result	Qual	ifier	Unit	D	%Rec	Limits		
Chloride			250		255			mg/kg		102	80 - 120		
Lab Sample ID: 7722690-1-BSD							С	lient Sa	mple	ID: Lab	Control	Sample	e Dup
Matrix: SOIL											Prep Ty		
Analysis Batch: 3152792										Pr	ep Batch		
			Spike		LCSD	LCSI	D				%Rec.		RPD
Analyte			Added	l	Result	Qual	ifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250		254			mg/kg		102	80 - 120	0	20
Lab Sample ID: 689502-003 S									С	ient Sa	mple ID: I	<i>l</i> atrix	Spike
Matrix: SOIL											Prep Ty		
Analysis Batch: 3152792										Pr	ep Batch		
	nple Sa	nple	Spike		MS	MS					%Rec.		-
Analyte Re	sult Qu	alifier	Added	I	Result	Qual	ifier	Unit	D	%Rec	Limits		

Job ID: 890-260-1

SDG: TE012921002

Released to Imaging: 6/11/2021 9:33:19 AM

Spike

Added

249

Spike

Added

250

MSD MSD

884 X

MS MS

310

Result Qualifier Unit

Result Qualifier Unit

Client: WSP USA Inc. Project/Site: James Ranch Unit DI 1A

Lab Sample ID: 689502-003 SD

Lab Sample ID: 690554-005 S

Analysis Batch: 3152792

Analysis Batch: 3152792

Matrix: SOIL

Matrix: SOIL

Analyte

Chloride

Analyte

Chloride

Method: CHLORIDE E300 - General Subcontract Method (Continued)

Sample Sample

Sample Sample

36.9

Result Qualifier

679

Result Qualifier

D: 890- E0129 ke Dup	21002
ke Dup	
	olicate
	licate
pe: To	tal/NA
: 31527	792_P
	RPD
RPD	Limit
0	20
Matrix	Spike
pe: Tot	tal/NA
: : 31527	792 P
	_
_	ike Dup

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Lab Sample ID: 690554-005 Matrix: SOIL	5 SD					Client	Samp		latrix Spi Prep Ty	pe: Tot	al/NA	
Analysis Batch: 3152792	Sample	Sample	Spike	MSD	MSD			P	rep Batch %Rec.	: 31527	7 <mark>92_P</mark> RPD	
Analyte Chloride	Result 36.9	Qualifier	Added 250	Result 310	Qualifier	Unit mg/kg	<u> </u>	%Rec 109	Limits 80 - 120	RPD 0	Limit 20	

Method: TPH 8015_NM_MOD - General Subcontract Method

Lab Sample ID: 7723045-1-BLK Matrix: SOIL Analysis Batch: 3153290	BI ANK	Client Sample ID: Method Bla Prep Type: Total Prep Batch: 3153290 BLANK BLANK								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analvzed	Dil Fac	
Diesel Range Organics (DRO)	<50		50		mg/kg	=			1	
Gasoline Range Hydrocarbons (GRO)	<50	U	50		mg/kg		03/10/21 17:00	03/10/21 21:38	1	
Motor Oil Range Hydrocarbons (MRO)	<50	U	50		mg/kg		03/10/21 17:00	03/10/21 21:38	1	

Lab Sample ID: 7723045-1-BKS Matrix: SOIL Analysis Ratch: 3153200

Analysis Batch: 3153290					Prep Batch: 3153290_F						
	Spike	LCS	LCS				%Rec.				
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits				
Diesel Range Organics (DRO)	 1000	1000		mg/kg		100	70 - 135				
Gasoline Range Hydrocarbons	1000	1080		mg/kg		108	70 - 135				
(GRO)											

Lab Sample ID: 7723045-1-BSD **Matrix: SOIL** Analysis Batch: 3153290

Analysis Batch: 3153290					Prep Batch: 315329						
	Spike	LCSD	LCSD				%Rec.		RPD		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Diesel Range Organics (DRO)	1000	1030		mg/kg		103	70 - 135	3	20		
Gasoline Range Hydrocarbons (GRO)	1000	1090		mg/kg		109	70 - 135	1	20		

Lab Sample ID: 691112-001 Matrix: SOIL Analysis Batch: 3153290	S						CI		· Prep Typ	Matrix Spike be: Total/NA : 3153290_P
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Diesel Range Organics (DRO)	<50		996	947		mg/kg		95	70 - 135	

Client: WSP USA Inc. Project/Site: James Ranch Unit DI 1A Job ID: 890-260-1 SDG: TE012921002

Method: TPH 8015 NM MOD - General Subcontract Method (Continued) Lab Sample ID: 691112-001 S **Client Sample ID: Matrix Spike** Matrix: SOIL Prep Type: Total/NA Prep Batch: 3153290 P Analysis Batch: 3153290 MS MS Sample Sample Spike %Rec. Analyte Result Qualifier Added **Result Qualifier** Unit D %Rec Limits <50 996 1020 102 70_135 Gasoline Range Hydrocarbons mg/kg (GRO) Lab Sample ID: 691112-001 SD **Client Sample ID: Matrix Spike Duplicate** Matrix: SOIL Prep Type: Total/NA Prep Batch: 3153290 P Analysis Batch: 3153290 MSD MSD %Rec. RPD Sample Sample Spike **Result Qualifier** Added Limits RPD Limit Analyte **Result Qualifier** Unit %Rec D **Diesel Range Organics (DRO)** <50 999 970 mg/kg 97 70 - 135 2 20 Gasoline Range Hydrocarbons <50 999 1040 mg/kg 104 70 - 135 2 20 (GRO) Lab Sample ID: 7723047-1-BLK **Client Sample ID: Method Blank** Matrix: SOIL Prep Type: Total/NA Analysis Batch: 3153292 Prep Batch: 3153292_P BLANK BLANK Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac Diesel Range Organics (DRO) <50 U 50 03/10/21 17:00 03/10/21 21:38 mg/kg 1 <50 U 50 03/10/21 17:00 03/10/21 21:38 Gasoline Range Hydrocarbons (GRO) mg/kg 1 50 Motor Oil Range Hydrocarbons (MRO) <50 U mg/kg 03/10/21 17:00 03/10/21 21:38 Lab Sample ID: 7723047-1-BKS **Client Sample ID: Lab Control Sample** Matrix: SOIL Prep Type: Total/NA Analysis Batch: 3153292 Prep Batch: 3153292 P LCS LCS Spike %Rec. Analyte Added **Result Qualifier** Unit D %Rec Limits Diesel Range Organics (DRO) 1000 1070 mg/kg 107 70 - 135 Gasoline Range Hydrocarbons 1000 1150 mg/kg 115 70 - 135 (GRO) Lab Sample ID: 7723047-1-BSD **Client Sample ID: Lab Control Sample Dup** Matrix: SOIL Prep Type: Total/NA Analysis Batch: 3153292 Prep Batch: 3153292 P LCSD LCSD RPD Spike %Rec. Added Limits RPD Analyte **Result Qualifier** Unit D %Rec Limit Diesel Range Organics (DRO) 1000 921 70 - 135 20 mg/kg 92 15 1000 1040 104 70 - 135 20 Gasoline Range Hydrocarbons mg/kg 10 (GRO) Lab Sample ID: 691123-001 S **Client Sample ID: Matrix Spike** Matrix: SOIL Prep Type: Total/NA Analysis Batch: 3153292 Prep Batch: 3153292 P Sample Sample Spike MS MS %Rec. Added Analyte **Result Qualifier Result Qualifier** Unit Limits D %Rec Diesel Range Organics (DRO) <49.9 997 906 91 70 - 135 mg/kg 1020 Gasoline Range Hydrocarbons <49.9 997 102 70 - 135 mg/kg (GRO)

Client: WSP USA Inc. Project/Site: James Ranch Unit DI 1A Job ID: 890-260-1 SDG: TE012921002

Method: TPH 8015_NM_MOD - General Subcontract Method (Continued)

Lab Sample ID: 691123-001 Matrix: SOIL Analysis Batch: 3153292	SD					Client	Samp		latrix Spil Prep Ty rep Batch	pe: Tot	al/NA
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Diesel Range Organics (DRO)	<49.9		998	911		mg/kg		91	70 - 135	1	20
Gasoline Range Hydrocarbons (GRO)	<49.9		998	1030		mg/kg		103	70 - 135	1	20

QC Association Summary

Client: WSP USA Inc. Project/Site: James Ranch Unit DI 1A

Subcontract

Analysis Batch: 3152792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-260-1	BH01	Total/NA	Solid	CHLORIDE E300	3152792_P
890-260-2	BH01 A	Total/NA	Solid	CHLORIDE E300	3152792_P
890-260-3	BH02	Total/NA	Solid	CHLORIDE E300	3152792_P
890-260-4	BH02 A	Total/NA	Solid	CHLORIDE E300	3152792_P
7722690-1-BLK	Method Blank	Total/NA	SOIL	CHLORIDE E300	3152792_P
7722690-1-BKS	Lab Control Sample	Total/NA	SOIL	CHLORIDE E300	3152792_P
7722690-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	CHLORIDE E300	3152792_P
689502-003 S	Matrix Spike	Total/NA	SOIL	CHLORIDE E300	3152792_P
689502-003 SD	Matrix Spike Duplicate	Total/NA	SOIL	CHLORIDE E300	3152792_P
690554-005 S	Matrix Spike	Total/NA	SOIL	CHLORIDE E300	3152792_P
690554-005 SD	Matrix Spike Duplicate	Total/NA	SOIL	CHLORIDE E300	3152792_P

Analysis Batch: 3153059

Lab Sample ID 890-260-1	Client Sample ID BH01	Prep Type Total/NA	Matrix Solid	BTEX 8021	Prep Batch 3153059_P
890-260-2	BH01 A	Total/NA	Solid	BTEX 8021	3153059_P
890-260-3	BH02	Total/NA	Solid	BTEX 8021	3153059_P
890-260-4	BH02 A	Total/NA	Solid	BTEX 8021	3153059_P
7722919-1-BLK	Method Blank	Total/NA	SOIL	BTEX 8021	3153059_P
7722919-1-BKS	Lab Control Sample	Total/NA	SOIL	BTEX 8021	3153059_P
7722919-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	BTEX 8021	3153059_P
690554-005 S	Matrix Spike	Total/NA	SOIL	BTEX 8021	3153059_P
690554-005 SD	Matrix Spike Duplicate	Total/NA	SOIL	BTEX 8021	3153059_P

Analysis Batch: 3153290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-260-1	BH01	Total/NA	Solid	TPH	3153290_P
				8015_NM_MOD	
7723045-1-BLK	Method Blank	Total/NA	SOIL	TPH	3153290_P
				8015_NM_MOD	
7723045-1-BKS	Lab Control Sample	Total/NA	SOIL	TPH	3153290_P
				8015_NM_MOD	
7723045-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	TPH	3153290_P
				8015_NM_MOD	
691112-001 S	Matrix Spike	Total/NA	SOIL	TPH	3153290_P
				8015_NM_MOD	
691112-001 SD	Matrix Spike Duplicate	Total/NA	SOIL	TPH	3153290_P
				8015_NM_MOD	

Analysis Batch: 3153292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-260-2	BH01 A	Total/NA	Solid	TPH	3153292_P
				8015_NM_MOD	
890-260-3	BH02	Total/NA	Solid	TPH	3153292_P
				8015_NM_MOD	
890-260-4	BH02 A	Total/NA	Solid	TPH	3153292_P
				8015_NM_MOD	
7723047-1-BLK	Method Blank	Total/NA	SOIL	TPH	3153292_P
				8015_NM_MOD	
7723047-1-BKS	Lab Control Sample	Total/NA	SOIL	TPH	3153292_P
				8015_NM_MOD	
7723047-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	TPH	3153292_P
				8015_NM_MOD	

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Job ID: 890-260-1 SDG: TE012921002

QC Association Summary

Client: WSP USA Inc. Project/Site: James Ranch Unit DI 1A

Subcontract (Continued)

Analysis Batch: 3153292 (Continued)

Lab Sample ID 691123-001 S	Client Sample ID Matrix Spike	Prep Type Total/NA	Matrix SOIL	Method	Prep Batch 3153292 P
	•			8015_NM_MOD	—
691123-001 SD	Matrix Spike Duplicate	Total/NA	SOIL	TPH 8015_NM_MOD	3153292_P

Prep Batch: 3152792_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-260-1	BH01	Total/NA	Solid	E300P	
890-260-2	BH01 A	Total/NA	Solid	E300P	
890-260-3	BH02	Total/NA	Solid	E300P	
890-260-4	BH02 A	Total/NA	Solid	E300P	
7722690-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7722690-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7722690-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	
689502-003 S	Matrix Spike	Total/NA	SOIL	***DEFAULT PREP***	
689502-003 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT PREP***	1
690554-005 S	Matrix Spike	Total/NA	SOIL	***DEFAULT PREP***	
690554-005 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT PREP***	

Prep Batch: 3153059_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-260-1	BH01	Total/NA	Solid	SW5035A	
890-260-2	BH01 A	Total/NA	Solid	SW5035A	
890-260-3	BH02	Total/NA	Solid	SW5035A	
890-260-4	BH02 A	Total/NA	Solid	SW5035A	
7722919-1-BLK	Method Blank	Total/NA	SOIL	SW5035A	
7722919-1-BKS	Lab Control Sample	Total/NA	SOIL	SW5035A	
7722919-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	SW5035A	
690554-005 S	Matrix Spike	Total/NA	SOIL	SW5035A	
690554-005 SD	Matrix Spike Duplicate	Total/NA	SOIL	SW5035A	

Prep Batch: 3153290_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-260-1	BH01	Total/NA	Solid	SW8015P	
7723045-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7723045-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7723045-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	
691112-001 S	Matrix Spike	Total/NA	SOIL	***DEFAULT PREP***	
691112-001 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT PREP***	

Prep Batch: 3153292_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-260-2	BH01 A	Total/NA	Solid	SW8015P	

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Job ID: 890-260-1 SDG: TE012921002

QC Association Summary

Client: WSP USA Inc. Project/Site: James Ranch Unit DI 1A

Subcontract (Continued)

Prep Batch: 3153292_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-260-3	BH02	Total/NA	Solid	SW8015P	
890-260-4	BH02 A	Total/NA	Solid	SW8015P	
7723047-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7723047-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7723047-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	
691123-001 S	Matrix Spike	Total/NA	SOIL	***DEFAULT PREP***	
691123-001 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT PREP***	

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Job ID: 890-260-1 SDG: TE012921002

Project/Site: James Ranch Unit DI 1A

Job ID: 890-260-1 SDG: TE012921002

Lab Sample ID: 890-260-1 Matrix: Solid

Lab Sample ID: 890-260-2

Lab Sample ID: 890-260-3

Lab Sample ID: 890-260-4

Matrix: Solid

Matrix: Solid

Matrix: Solid

Date Collected: 03/03/21 11:00 Date Received: 03/04/21 15:30

Client Sample ID: BH01

Client: WSP USA Inc.

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	SW5035A		1	3153059_P	03/09/21 16:00		XM
Total/NA	Analysis	BTEX 8021		1	3153059	03/10/21 08:12	KTL	XM
Total/NA	Prep	E300P		1	3152792_P	03/07/21 16:10		XM
Total/NA	Analysis	CHLORIDE E300		1	3152792	03/08/21 08:24	SPC	XM
Total/NA	Prep	SW8015P		1	3153290_P	03/10/21 17:00		XM
Total/NA	Analysis	TPH 8015_NM_MOD		1	3153290	03/11/21 06:15	ARM	XM

Client Sample ID: BH01 A Date Collected: 03/03/21 11:15 Date Received: 03/04/21 15:30

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	SW5035A		1	3153059_P	03/09/21 16:00		XM
Total/NA	Analysis	BTEX 8021		1	3153059	03/10/21 08:33	KTL	XM
Total/NA	Prep	E300P		1	3152792_P	03/07/21 16:10		XM
Total/NA	Analysis	CHLORIDE E300		1	3152792	03/08/21 08:31	SPC	XM
Total/NA	Prep	SW8015P		1	3153292_P	03/10/21 17:00		XM
Total/NA	Analysis	TPH 8015_NM_MOD		1	3153292	03/11/21 05:34	ARM	XM

Client Sample ID: BH02 Date Collected: 03/03/21 11:30 Date Received: 03/04/21 15:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	SW5035A		1	3153059_P	03/09/21 16:00		XM
Total/NA	Analysis	BTEX 8021		1	3153059	03/10/21 08:53	KTL	XM
Total/NA	Prep	E300P		1	3152792_P	03/07/21 16:10		XM
Total/NA	Analysis	CHLORIDE E300		1	3152792	03/07/21 20:46	SPC	XM
Total/NA	Prep	SW8015P		1	3153292_P	03/10/21 17:00		XM
Total/NA	Analysis	TPH 8015_NM_MOD		1	3153292	03/11/21 05:55	ARM	XM

Client Sample ID: BH02 A Date Collected: 03/03/21 11:45 Date Received: 03/04/21 15:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	SW5035A		1	3153059_P	03/09/21 16:00		XM
Total/NA	Analysis	BTEX 8021		1	3153059	03/10/21 09:14	KTL	XM
Total/NA	Prep	E300P		1	3152792_P	03/07/21 16:10		XM
Total/NA	Analysis	CHLORIDE E300		1	3152792	03/08/21 08:38	SPC	XM
Total/NA	Prep	SW8015P		1	3153292_P	03/10/21 17:00		XM
Total/NA	Analysis	TPH 8015_NM_MOD		1	3153292	03/11/21 06:15	ARM	XM

Laboratory References:

XM = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

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Released to Imaging: 6/11/2021 9:33:19 AM

Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: James Ranch Unit DI 1A

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21
<u> </u>			

Eurofins Carlsbad

Job ID: 890-260-1

SDG: TE012921002

Page 92 of 97

Method Summary

Client: WSP USA Inc. Project/Site: James Ranch Unit DI 1A Job ID: 890-260-1 SDG: TE012921002

Method	Method Description	Protocol	Laboratory
Subcontract	BTEX 8021	None	XM
Subcontract	CHLORIDE E300	None	XM
Subcontract	TPH 8015 NM MOD	None	XM

Protocol References:

None = None

Laboratory References:

XM = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: WSP USA Inc. Project/Site: James Ranch Unit DI 1A Job ID: 890-260-1 SDG: TE012921002

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID	
890-260-1	BH01	Solid	03/03/21 11:00	03/04/21 15:30		
390-260-2	BH01 A	Solid	03/03/21 11:15	03/04/21 15:30		
390-260-3	BH02	Solid	03/03/21 11:30	03/04/21 15:30		2
390-260-4	BH02 A	Solid	03/03/21 11:45	03/04/21 15:30		
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Kyje Littrell Work Orda XTO Energy 3104 East Green Street Program: UST/PSTPRPBr J104 East Green Street Reporting:Level IIPeriod Deliverables: EDD Norev. Kennedv@wso.com Dath Mor@wso.com ANALYSIS REQUEST Program: UST/PSTPRPBr ANALYSIS REQUEST ANALYSIS REQUEST Deliverables: EDDAD ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST AD ANALYSIS REQUEST ANALYSIS REQUEST AD ANALYSIS REQUEST AD AD ANALYSIS REQUEST AD AD ANALYSIS REQUEST AD AD ANALYSIS REQUEST AD AD ANALYSIS REQUEST ANALYSIS REQUEST AD ANALYSIS REQUEST ANALYSIS RE	Received by: (Signature)									ω
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			e Littrell	it) Kyl	Bill to: (if differe				Dan Moir	Project Manager:



14

Job Number: 890-260-1 SDG Number: TE012921002

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 260 List Number: 1

<6mm (1/4").

Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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

CONDITIONS

Operator: C	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road A	Action Number:
Midland, TX 79707	24919
A	Action Type:
	[C-141] Release Corrective Action (C-141)
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CONDITIONS

Created By	Condition	Condition Date
chensley	None	6/11/2021

CONDITIONS

Page 97 of 97

Action 24919