

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

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

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

Incident ID	NRM1935238930
District RP	
Facility ID	
Application ID	

Release Notification QF1LS-191029-C-1410

Responsible Party

Responsible Party: WPX Energy Permian, LLC.	OGRID: 246289
Contact Name: Jim Raley	Contact Telephone: 575-689-7597
Contact email: james.ralej@wpxenergy.com	Incident # (assigned by OCD)
Contact mailing address: 5315 Buena Vista Dr., Carlsbad, NM 88220	

Location of Release Source

Latitude 32.0213394 _____ Longitude -103.97509 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: EAST PECOS FEDERAL COM 22 #001H	Site Type: Production Facility
Date Release Discovered: 10/26/2019	API# (if applicable): 30-015-40568

Unit Letter	Section	Township	Range	County
N	22	26S	29E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 35	Volume Recovered (bbls) 25
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Failure of piping connection allowed 35 bbls to be released to pad surface, 25 bbls recovered.


State of New Mexico
Oil Conservation Division

Incident ID	NRM1935238930
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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Phone call and email to Mike Bratcher on 10/26/2019.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> 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: Jim Raley	Title: Environmental Specialist
Signature: 	Date: 10/29/2019
email: james.raley@wpenergy.com	Telephone: 575-689-7597
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>12/18/2019</u>

Incident ID	NRM1935238930
District RP	
Facility ID	
Application ID	

Remediation Plan

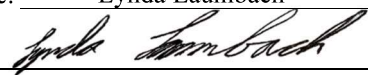
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Lynda Laumbach Title: Environmental Specialist
Signature:  Date: 01/21/2021
email: Lynda.Laumbach@wpenergy.com Telephone: (575)725-1647

OCD Only

Received by: Chad Hensley Date: 04/07/2021

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature:  Date: 04/07/2021

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

Incident ID	NRM2001038937
District RP	
Facility ID	
Application ID	

Release Notification

H84PU-191115-C-1410

Responsible Party

Responsible Party: WPX Energy Permian, LLC.	OGRID: 246289
Contact Name: Lynda Laumbach	Contact Telephone: (575) 725-1647
Contact email: Lynda.Laumbach@wpxenergy.com	Incident # (assigned by OCD)
Contact mailing address: 5315 Buena Vista Drive, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.0213394 _____ Longitude -103.97509 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: EAST PECOS FEDERAL COM 22 #001H	Site Type: Production Facility
Date Release Discovered: 11/09/2019	API# (if applicable): 30-015-40568

Unit Letter	Section	Township	Range	County
N	22	26S	29E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: George Ross Ranch LLC. _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 120	Volume Recovered (bbls) 90
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Failure of piping connection allowing ~120 bbls of produced water to be released onto the pad surface and to the pasture West of the location. 90bbls of produced water was recovered.

Form C-141

Page 2


State of New Mexico
Oil Conservation Division

Incident ID	NRM2001038937
District RP	
Facility ID	
Application ID	

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If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Emailed to Mike Bratcher on 11/09/2019.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
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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.
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<u>OCD Only</u> Received by: Ramona Marcus _____ Date: 1/10/2020 _____

Incident ID	NRM2001038937
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Facility ID	
Application ID	

Remediation Plan

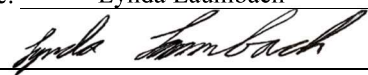
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
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Printed Name: Lynda Laumbach Title: Environmental Specialist
Signature:  Date: 01/21/2021
email: Lynda.Laumbach@wpenergy.com Telephone: (575)725-1647

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

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

Incident ID	NVV2003433576
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC.	OGRID: 246289
Contact Name: Lynda Laumbach	Contact Telephone: (575) 725-1647
Contact email: Lynda.Laumbach@wpxenergy.com	Incident # (assigned by OCD) NVV2003433576
Contact mailing address: 5315 Buena Vista Drive, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.020878 Longitude -103.974639
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: East Pecos Federal 22 #009H	Site Type: Production Facility
Date Release Discovered: 01/21/2020	API# (if applicable): 30-015-43349

Unit Letter	Section	Township	Range	County
M	22	26S	29E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): 140	Volume Recovered (bbls): 115
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

A swedge connection on the transfer pump failed, causing 140bbls to be released onto the pad and inside the tank battery lined secondary containment. A vacuum truck was immediately called and recovered 115bbl of fluids. A third-party contractor has been obtained to complete remediation activities. Soil estimates on the pad surface were


$$bbl\ estimate = \frac{saturated\ soil\ volume\ (ft^3)}{4.21(\frac{ft^3}{bbl\ equivalent})} * estimated\ soil\ porosity(\%)$$

Incident ID	NVV2003433576
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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Release was greater than 25bbbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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Printed Name: <u>Lynda Laumbach</u>	Title: <u>Environmental Specialist</u>
Signature: <u></u>	Date: <u>01/24/2020</u>
email: <u>Lynda.Laumbach@wpenergy.com</u>	Telephone: <u>(575)725-1647</u>
<u>OCD Only</u>	
Received by: <u>Victoria Venegas</u>	Date: <u>02/03/2020</u>

Incident ID	NVV2003433576
District RP	
Facility ID	
Application ID	

Remediation Plan

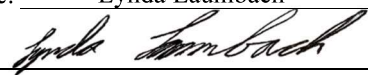
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- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

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Printed Name: Lynda Laumbach Title: Environmental Specialist
Signature:  Date: 01/21/2021
email: Lynda.Laumbach@wpenergy.com Telephone: (575)725-1647

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____



January 21, 2021
Mike Bratcher
NMOCD District 2
811 South First Street
Artesia, NM 88210

Re: East Pecos Federal Com 22 #001H, #009H Site Update and Remediation Plan
(NVV2003433576, NRM1935238930, NRM2001038937)

Mr. Bratcher,

This report provides a site update and remediation plan for the East Pecos Federal Com 22 #001H/ #009H well pad (Site). A topographic map of the Site is provided as Figure 01. Three separate releases occurred between the water transfer pump and the outlet line just south of the tank battery containment. The releases occurred on October 26, 2019, November 9, 2019, and January 21, 2020. A total of 295 barrels (bbl) of produced water was estimated to have impacted the ground surface during these events. Vacuum trucks were used to recover 230 bbl of produced water for a net fluid loss of 65 bbl. Initial release information and site characterization is included within the attached Initial C-141 forms.

Well Location: East Pecos Federal Com 22 #001H/ #009H

API #: 30-015-40568, 30-015-43349

NMOCD Reference #: NVV2003433576, NRM1935238930, NRM2001038937

Site Location Description: Unit Letter M, Section 22, Township 26S, Range 29E

Release Latitude/Longitude: N32.020829, W103.974626

Land Jurisdiction: Private (Federal minerals)

Estimated Depth to Groundwater: 50 to 100 feet below ground surface (bgs)

NMOCD Site Characterization Standards

Closure criteria of the Site is based on the New Mexico Administrative Code (NMAC) Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12). Depth to groundwater at the site is estimated to be greater than 50 feet bgs based on United States Geological Survey water well #320126103562801 located within ½ mile of the Site. Applicable Table 1 closure criteria are as follows:

- 10,000 milligrams per kilogram (mg/kg) Chloride (on pad)
- 50 mg/kg Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX)
- 10 mg/kg Benzene
- 1,000 mg/kg Diesel Range Organics + Gasoline Range Organics (DRO+GRO)
- 2,500 mg/kg Total Petroleum Hydrocarbons (TPH)

Field Activities

On November 11, 2019, WPX and environmental personnel from WESCOM were onsite to confirm the release extent of NRM1935238930 and NRM2001038937. Environmental personnel from WESCOM collected delineation samples SP1 through SP22 at multiple depths on December 13, 2019. During the week of April 20, 2020, WPX utilized LTE to collect delineation

samples PH01-PH08 associated with the January 2020 release. The area of interest of all three releases is located on Figure 02 and photographs are documented as Attachment 01.

Additional site work was postponed due to landowner access issue.

Sampling Activities

Discrete samples were taken to delineate the area encompassed by the extent of the releases. All samples were taken with decontaminated equipment, jarred in precleaned glass soil jars, labelled with sample name, date, Site name, and depth, and immediately placed on ice to lower sample temperatures below 4° Celsius, adhering to chain of custodies of Envirotech Laboratories. Samples were analyzed for Chlorides via Method EPA 300.0, TPH via Method 8015M, and BTEX via Method 8021B.

Laboratory Analytical Results

The laboratory analytical results for the delineation of impacted soils confirmed that all samples were below the applicable closure criteria for Chlorides outlined above. Sample PH01A at two feet bgs depicted elevated DRO, 1,360 mg/kg. The sample locations are depicted in Figure 02. All sample results are summarized in Table 01. Complete lab results are provided in Attachment 02.

Proposed Remediation Plan

WPX will collect discrete samples from 12 locations across the pad to complete Chloride delineation. The proposed sample locations are depicted on Figure 03. These samples will be analyzed for Chlorides via Method EPA 300.0.

WPX will remove an estimated 50 cubic yards from the pad surface to address contamination near sample PH01. Soils will be remediated to a standard of less than 1,000 mg/kg DRO+GRO. Closure samples collected within this area will be analyzed for DRO+GRO via Method 8015M. WPX proposes to remove an estimated 1,500 cubic yards (7,500 square feet) of impacted soil from the pasture. This volume is based on an average depth of four feet with contamination greater than 600 mg/kg chlorides. Closure samples collected from within this area will be analyzed for Chloride per Method EPA 300.0. Contaminated soil will be hauled to disposal at R-360 Red Bluff Facility, 5053 US Hwy 285, Orla, TX 79770.

Proposed Schedule

WPX plans to start this project upon receipt of landowner permission. Once started, the project, including excavation, sampling, backfill, and closure report will be completed within 90 days. The final report will include information and data collected during site characterization and remediation activities.

If any questions or further information is warranted, please do not hesitate to contact me by cell phone at (575) 725-1647 or by email at Lynda.Laumbach@wpxenergy.com.

Best regards,



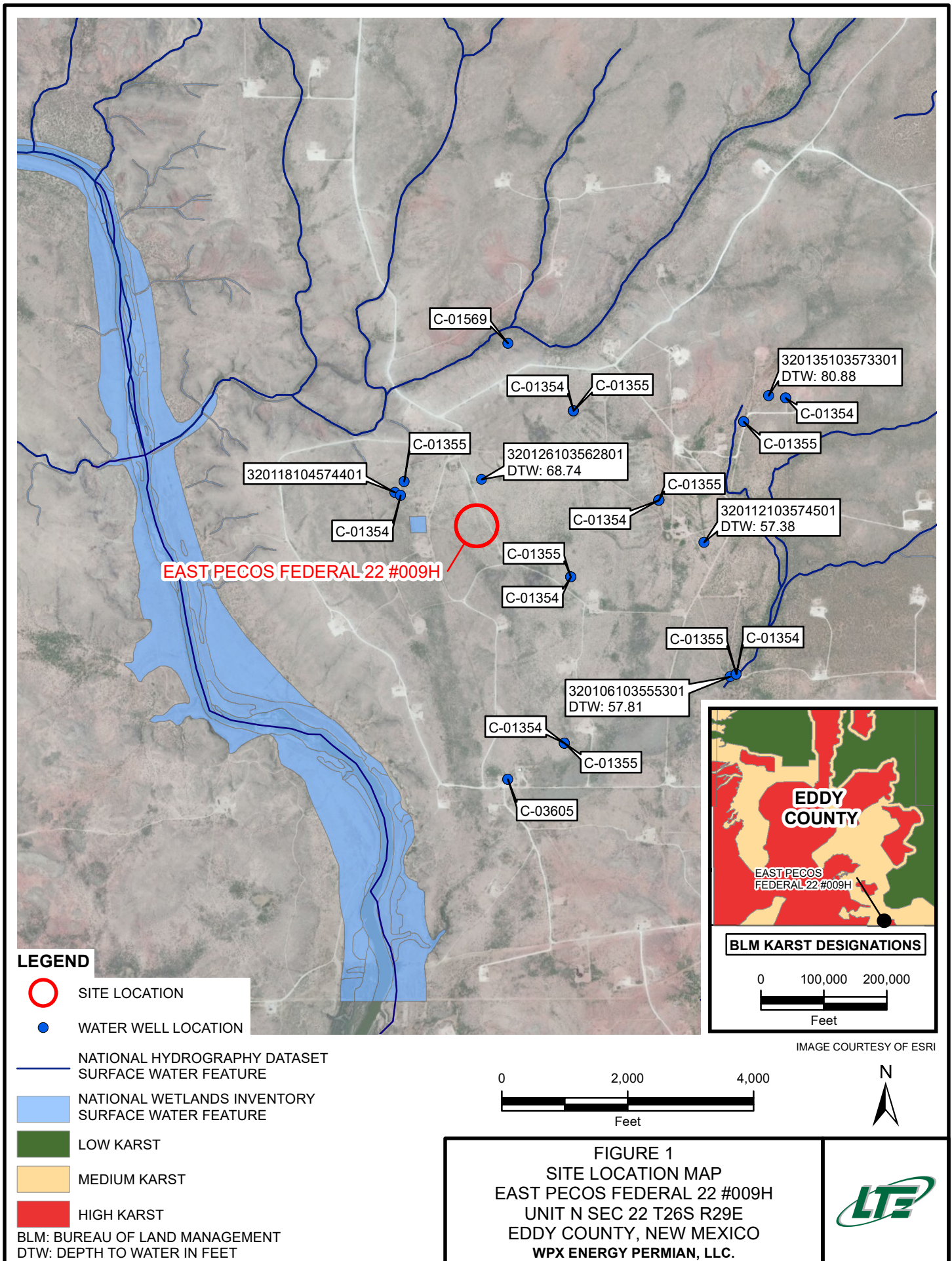
Lynda Laumbach
Environmental Specialist

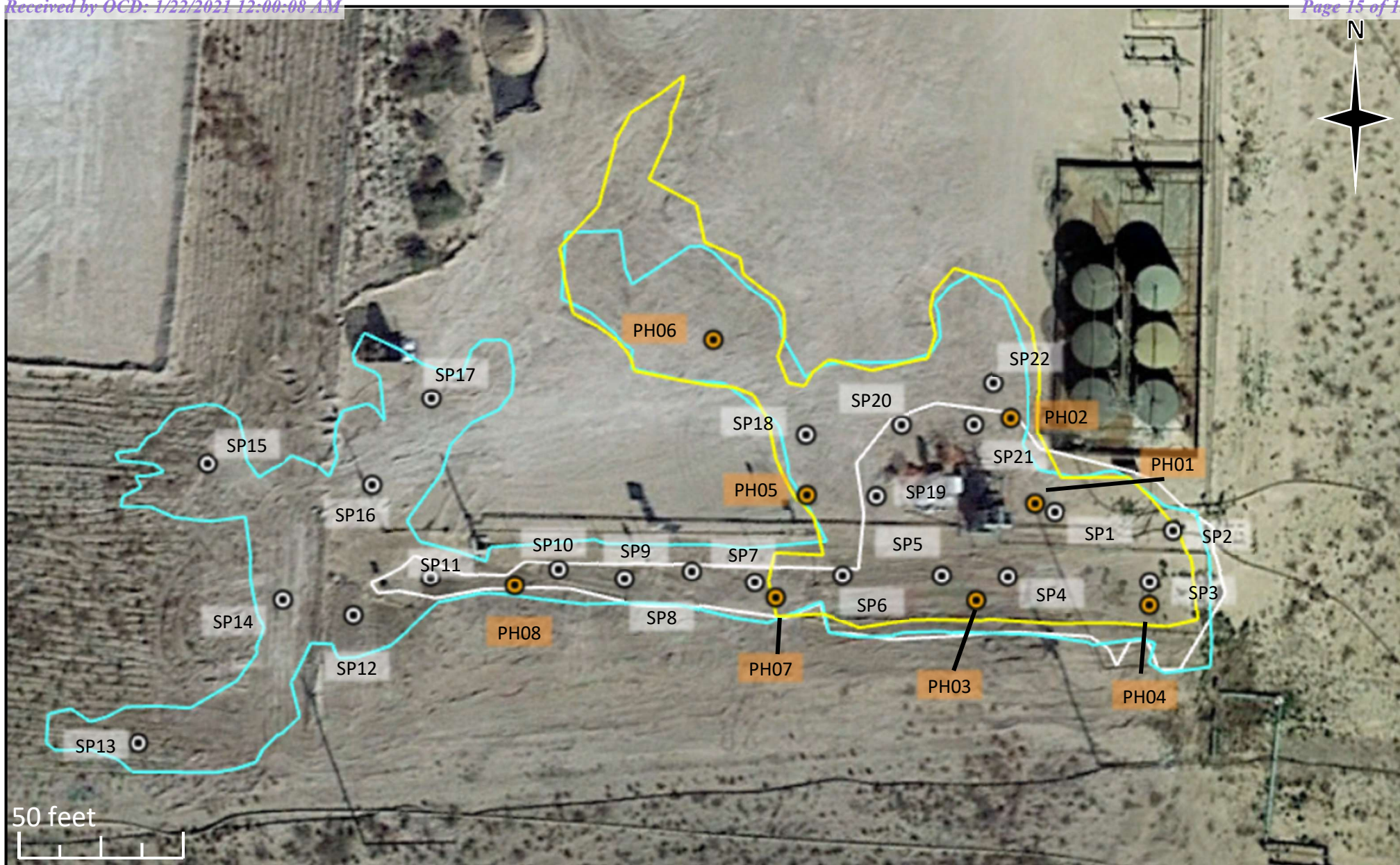
CC: Robert Hamlet, NMOCD
Victoria Venegas, NMOCD

Attachments:

Figure 01 Topographic Map
Figure 02 Field Map & Delineation Samples
Figure 03 Remediation Plan
Table 01 Laboratory Sample Results
Attachment 01 Photographic Log
Attachment 02 Analytical Laboratory Reports

Figures





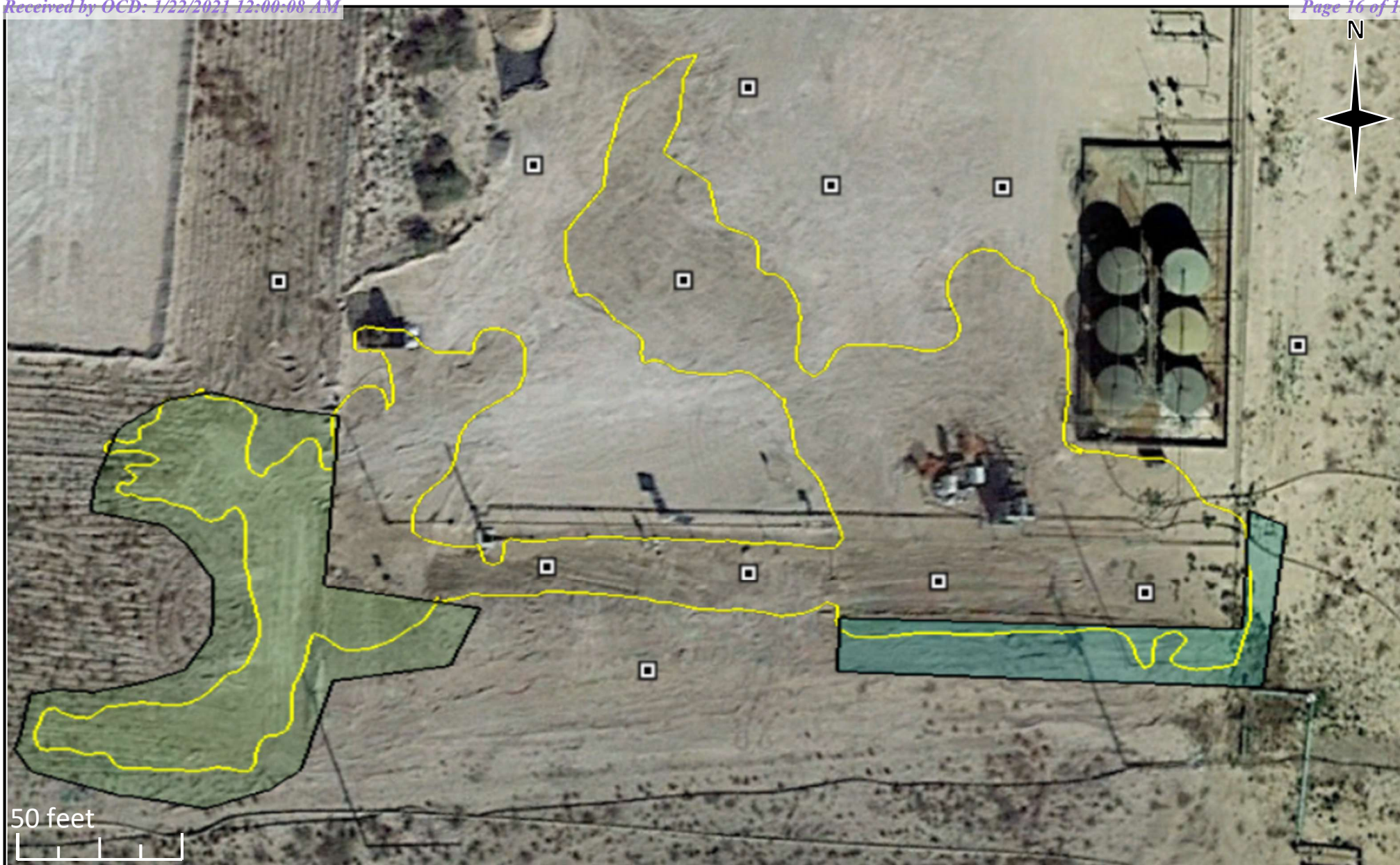
Legend

- NVV2003433576
- NRM1935238930
- NRM2001038937

- December 2019 Sample Locations
- April 2020 Sample Locations



Figure 02
East Pecos Federal Com 22 #001H/009H
Permian Basin, Eddy County, NM
32.020837, -103.97459



Legend




-  Combined release(s) extent
-  Pasture Areas (non-platted)
-  Proposed delineation locations

Figure 03
East Pecos Federal Com 22 #001H/009H
Permian Basin, Eddy County, NM

32.020837, -103.97459

Table

TABLE 01
SOIL SAMPLE ANALYTICAL RESULTS

EAST PECOS FEDERAL COM 22 #001H/009H

NMOCD REFERENCE NUMBER(S): NVV2003433576, NRM1935238930, NRM2001038937



Sample Name	Depth (ft bgs)	Sample Date	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	GRO + DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
SP1-2'	2	12/13/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	3430.0
SP1-4'	4	12/13/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	5190.0
SP1-10'	10	12/13/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	577.0
SP2-2'	2	12/13/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	186.0
SP2-4'	4	12/13/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	101.0
SP2-10'	10	12/13/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	518.0
SP3-2'	2	12/13/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	431.0
SP3-4'	4	12/13/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	506.0
SP3-8'-8"	8.66	12/13/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	799.0
SP4-2'	2	12/13/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	712.0
SP4-4'	4	12/13/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	847.0
SP4-6'	6	12/13/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	1130.0
SP5-2'	2	12/13/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	1600.0
SP5-4'	4	12/13/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	1150.0
SP5-6'	6	12/13/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	1370.0
SP6-2'	2	12/13/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	2260.0
SP6-4'	4	12/13/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	1670.0
SP6-10'	10	12/13/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	583.0
SP7-2'	2	12/13/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	182.0
SP7-4'	4	12/13/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	519.0
SP8-2'	2	12/13/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	155.0
SP8-4'	4	12/13/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	818.0
SP9-2'	2	12/13/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	892.0
SP9-4'	4	12/13/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	225.0
SP9-13'	13	12/13/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	4260.0
SP10-2'	2	12/13/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	75.3
SP10-4'	4	12/13/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	599.0
NMOCD Table 1 Closure Criteria			10	50	NE	NE	NE	1000	2500	10000



Sample Name	Depth (ft bgs)	Sample Date	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	GRO + DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
SP11-2'	2	12/13/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	294.0
SP11-4'	4	12/13/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	928.0
SP11-10'	10	12/13/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	233.0
SP12-2'	2	12/14/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	771.0
SP12-4'	4	12/14/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	847.0
SP12-9'	9	12/14/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	711.0
SP13-2'	2	12/14/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	990.0
SP13-4'	4	12/14/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	888.0
SP13-8'	8	12/14/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	978.0
SP14-2'	2	12/14/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	1490.0
SP14-4'	4	12/14/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	876.0
SP14-6'	6	12/14/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	1210.0
SP15-2'	2	12/14/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	841.0
SP15-4'	4	12/14/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	418.0
SP16-2'	2	12/14/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	3890.0
SP16-4'	4	12/14/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	1500.0
SP17-2'	2	12/14/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	897.0
SP17-4'	4	12/14/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	1010.0
SP17-12'	12	12/14/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	163.0
SP18-2'	2	12/14/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	678.0
SP18-4'	4	12/14/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	22.8
SP19-2'	2	12/14/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	187.0
SP19-4'	4	12/14/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	1730.0
SP19-6'	6	12/14/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	279.0
SP20-2'	2	12/14/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	4750.0
SP20-4'	4	12/14/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	1190.0
SP20-6'	6	12/14/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	46.1
SP21-2'	2	12/14/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	1390.0
SP21-4'	4	12/14/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	609.0
SP22-2'	2	12/14/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	6030.0
NMOCD Table 1 Closure Criteria			10	50	NE	NE	NE	1000	2500	10000







Sample Name	Depth (ft bgs)	Sample Date	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	GRO + DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
SP22-4'	4	12/14/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	5760
SP22-6'	6	12/14/2019	<0.025	<0.025	<25.0	<25.0	<50.0	-	-	771
PH01	0.5	4/20/2020	<0.025	<0.025	<20.0	154	<50.0	154	154	6070
PH01A	2	4/20/2020	<0.025	<0.025	<20.0	1,360	<50.0	1360	1360	3320
PH02	0.5	4/20/2020	<0.025	<0.025	<20.0	<25.0	<50.0	-	-	1490
PH02A	2	4/20/2020	<0.025	<0.025	<20.0	<25.0	<50.0	-	-	3060
PH02B	8	4/20/2020	-	-	-	-	-	-	-	765
PH03	0.5	4/20/2020	<0.025	<0.025	<20.0	<25.0	<50.0	-	-	3350
PH03A	2	4/20/2020	<0.025	<0.025	<20.0	<25.0	<50.0	-	-	4870
PH04	0.5	4/20/2020	<0.025	<0.025	<20.0	55.3	<50.0	55.3	55.3	4380
PH04A	2.5	4/20/2020	<0.025	<0.025	<20.0	41.8	<50.0	41.8	41.8	2680
PH04B	9	4/20/2020	-	-	-	-	-	-	-	1140
PH05	0.5	4/20/2020	<0.025	<0.025	<20.0	<25.0	<50.0	-	-	369
PH05A	2	4/20/2020	<0.025	<0.025	<20.0	<25.0	<50.0	-	-	507
PH06	0.5	4/20/2020	<0.025	<0.025	<20.0	<25.0	<50.0	-	-	30.7
PH06A	2	4/20/2020	<0.025	<0.025	<20.0	<25.0	<50.0	-	-	131
PH06B	4	4/20/2020	-	-	-	-	-	-	-	158
PH07	0.5	4/20/2020	<0.025	<0.025	<20.0	<25.0	<50.0	-	-	3520
PH07A	2.5	4/20/2020	<0.025	<0.025	<20.0	<25.0	<50.0	-	-	3440
PH07B	10.5	4/20/2020	-	-	-	-	-	-	-	1140
PH08	0.5	4/20/2020	<0.025	<0.025	<20.0	<25.0	<50.0	-	-	4580
PH08A	2.5	4/20/2020	<0.025	<0.025	<20.0	<25.0	<50.0	-	-	787
NMOCD Table 1 Closure Criteria			10	50	NE	NE	NE	1000	2500	10000

Reference: BTEX: benzene, toluene, ethylbenzene, and total xylenes mg/kg: milligrams per kilogram
 GRO: gasoline range organics NMOCD: New Mexico Oil Conservation Division
 DRO: diesel range organics TPH: total petroleum hydrocarbons
 ft bgs: feet below ground surface
 NMOCD Table 1 Closure Criteria: NMAC 19.15.29 August 2018 criteria for soils impacted based on characterization

Attachment 01



<p>Picture 1- North west face, west of TB</p> <p>20-Apr-20</p>  A wide-angle photograph of a construction site under a clear blue sky. In the foreground, there is a large, flat, sandy area. In the middle ground, a yellow excavator is positioned near a white pickup truck. Further back, another vehicle and some construction equipment are visible. The horizon is flat with some distant vegetation.	<p>Picture 2- North east face, facing tanks</p> <p>20-Apr-20</p>  A close-up photograph of a yellow excavator's arm and bucket digging into a pile of brown earth. The excavator is positioned on the left side of the frame, and the bucket is partially submerged in the dirt. The background shows a clear sky and some distant structures.
<p>Picture 3- West face, south west of TB</p> <p>20-Apr-20</p>  A photograph of a construction site with a yellow excavator in the foreground. The excavator is positioned on the left side of the frame, and its arm is extended towards the center. In the background, there are several large, white, cylindrical storage tanks and some construction equipment. The ground is sandy and uneven.	<p>Picture 4- East face, South of TB</p> <p>20-Apr-20</p>  A photograph of a yellow excavator digging a hole in the ground. The excavator is positioned on the left side of the frame, and its arm is extended towards the center. The ground is sandy and uneven. In the background, there are some construction materials and equipment.



Picture 5- North face, west edge of TB	
<p data-bbox="154 342 277 373">20-Apr-20</p>  A photograph showing a yellow excavator digging a trench in a dirt area. A person in a grey hoodie and blue jeans stands in the trench, looking towards the excavator. In the background, there is a white pickup truck, a large cylindrical storage tank, and some construction materials under a clear blue sky.	

Attachment 02



Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 12/17/2019

Job Number: 04108-0639

Work Order: P912042

Project Name/Location: East Pecos 22 Fed Com 1

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue rectangular background.

Date: 12/19/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



WPX (Carlsbad)
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: East Pecos 22 Fed Com 1
Project Number: 04108-0639
Project Manager: Lynda Laumbach

Reported:
12/19/19 15:35

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1-2'	P912042-01A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.
SP1-4'	P912042-02A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.
SP1-10'	P912042-03A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.
SP2-2'	P912042-04A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.
SP2-4'	P912042-05A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.
SP2-10'	P912042-06A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.
SP3-2'	P912042-07A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.
SP3-4'	P912042-08A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.
SP3-8'-8"	P912042-09A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.
SP4-2'	P912042-10A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.
SP4-4'	P912042-11A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.
SP4-6'	P912042-12A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.
SP5-2'	P912042-13A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.
SP5-4'	P912042-14A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.
SP5-6'	P912042-15A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.
SP6-2'	P912042-16A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.
SP6-4'	P912042-17A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.
SP6-10'	P912042-18A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.
SP7-2'	P912042-19A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.
SP7-4'	P912042-20A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.

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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 15:35

SP1-2'
P912042-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.0 %		50-150	1951007	12/16/19	12/17/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		95.6 %		50-200	1951011	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		84.0 %		50-150	1951007	12/16/19	12/17/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	3430	100	mg/kg	5	1951015	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 15:35

SP1-4'
P912042-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.8 %		50-150	1951007	12/16/19	12/17/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		94.7 %		50-200	1951011	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.3 %		50-150	1951007	12/16/19	12/17/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	5190	100	mg/kg	5	1951015	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 15:35

SP1-10'
P912042-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.1 %		50-150	1951007	12/16/19	12/17/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		93.3 %		50-200	1951011	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		84.7 %		50-150	1951007	12/16/19	12/17/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	577	20.0	mg/kg	1	1951015	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 15:35

SP2-2'
P912042-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.3 %		50-150	1951007	12/16/19	12/17/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		96.3 %		50-200	1951011	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		84.8 %		50-150	1951007	12/16/19	12/17/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	186	20.0	mg/kg	1	1951015	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 15:35

SP2-4'
P912042-05 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.8 %		50-150	1951007	12/16/19	12/17/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		90.2 %		50-200	1951011	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		84.6 %		50-150	1951007	12/16/19	12/17/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	101	20.0	mg/kg	1	1951015	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 15:35

SP2-10'
P912042-06 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.8 %		50-150	1951007	12/16/19	12/17/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		88.5 %		50-200	1951011	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.2 %		50-150	1951007	12/16/19	12/17/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	518	20.0	mg/kg	1	1951015	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 15:35

SP3-2'
P912042-07 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.9 %		50-150	1951007	12/16/19	12/17/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		87.2 %		50-200	1951011	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		84.7 %		50-150	1951007	12/16/19	12/17/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	431	20.0	mg/kg	1	1951015	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 15:35

SP3-4'
P912042-08 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.6 %		50-150	1951007	12/16/19	12/17/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		90.9 %		50-200	1951011	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.3 %		50-150	1951007	12/16/19	12/17/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	506	20.0	mg/kg	1	1951015	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 15:35

SP3-8'-8"
P912042-09 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.6 %		50-150	1951007	12/16/19	12/17/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		89.7 %		50-200	1951011	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		84.1 %		50-150	1951007	12/16/19	12/17/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	799	20.0	mg/kg	1	1951015	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 15:35

SP4-2'
P912042-10 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.0 %		50-150	1951007	12/16/19	12/17/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		88.0 %		50-200	1951011	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.7 %		50-150	1951007	12/16/19	12/17/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	712	20.0	mg/kg	1	1951015	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 15:35

SP4-4'
P912042-11 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.2 %		50-150	1951007	12/16/19	12/17/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		92.9 %		50-200	1951011	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.9 %		50-150	1951007	12/16/19	12/17/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	847	20.0	mg/kg	1	1951015	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 15:35

SP4-6'
P912042-12 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.4 %		50-150	1951007	12/16/19	12/17/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		85.2 %		50-200	1951011	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.5 %		50-150	1951007	12/16/19	12/17/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	1130	20.0	mg/kg	1	1951015	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 15:35

SP5-2'
P912042-13 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.5 %		50-150	1951007	12/16/19	12/17/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		93.3 %		50-200	1951011	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.8 %		50-150	1951007	12/16/19	12/17/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	1600	20.0	mg/kg	1	1951015	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 15:35

SP5-4'
P912042-14 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.7 %		50-150	1951007	12/16/19	12/17/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		92.5 %		50-200	1951011	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.4 %		50-150	1951007	12/16/19	12/17/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	1150	20.0	mg/kg	1	1951015	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 15:35

SP5-6'
P912042-15 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %		50-150	1951007	12/16/19	12/17/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		92.9 %		50-200	1951011	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951007	12/16/19	12/17/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.5 %		50-150	1951007	12/16/19	12/17/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	1370	20.0	mg/kg	1	1951015	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 15:35

SP6-2'
P912042-16 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %		50-150	1951007	12/16/19	12/18/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		91.8 %		50-200	1951011	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.2 %		50-150	1951007	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	2260	40.0	mg/kg	2	1951015	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	Reported: 12/19/19 15:35
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	

SP6-4'
P912042-17 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.9 %		50-150	1951007	12/16/19	12/18/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		96.8 %		50-200	1951011	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.7 %		50-150	1951007	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	1670	20.0	mg/kg	1	1951015	12/17/19	12/18/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 15:35

SP6-10'
P912042-18 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.7 %		50-150	1951007	12/16/19	12/18/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		93.5 %		50-200	1951011	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.2 %		50-150	1951007	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	583	20.0	mg/kg	1	1951015	12/17/19	12/18/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 15:35

SP7-2'
P912042-19 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.9 %		50-150	1951007	12/16/19	12/18/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951011	12/17/19	12/17/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		97.7 %		50-200	1951011	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.8 %		50-150	1951007	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	182	20.0	mg/kg	1	1951015	12/17/19	12/18/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 15:35

SP7-4'
P912042-20 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %		50-150	1951007	12/16/19	12/18/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951011	12/17/19	12/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951011	12/17/19	12/18/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		94.5 %		50-200	1951011	12/17/19	12/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951007	12/16/19	12/18/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.9 %		50-150	1951007	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	519	20.0	mg/kg	1	1951015	12/17/19	12/18/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	Reported: 12/19/19 15:35
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	

Volatile Organics by EPA 8021 - Quality Control**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1951007 - Purge and Trap EPA 5030A**Blank (1951007-BLK1)**

Prepared: 12/16/19 1 Analyzed: 12/18/19 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	7.78		"	8.00		97.2	50-150			

LCS (1951007-BS1)

Prepared: 12/16/19 1 Analyzed: 12/18/19 1

Benzene	4.92	0.0250	mg/kg	5.00		98.3	70-130			
Toluene	5.01	0.0250	"	5.00		100	70-130			
Ethylbenzene	4.93	0.0250	"	5.00		98.7	70-130			
p,m-Xylene	9.83	0.0500	"	10.0		98.3	70-130			
o-Xylene	4.92	0.0250	"	5.00		98.3	70-130			
Total Xylenes	14.7	0.0250	"	15.0		98.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.00		"	8.00		100	50-150			

Matrix Spike (1951007-MS1)

Source: P912042-01

Prepared: 12/16/19 1 Analyzed: 12/18/19 1

Benzene	4.93	0.0250	mg/kg	5.00	ND	98.6	54.3-133			
Toluene	5.07	0.0250	"	5.00	ND	101	61.4-130			
Ethylbenzene	4.98	0.0250	"	5.00	ND	99.6	61.4-133			
p,m-Xylene	9.90	0.0500	"	10.0	ND	99.0	63.3-131			
o-Xylene	4.97	0.0250	"	5.00	ND	99.4	63.3-131			
Total Xylenes	14.9	0.0250	"	15.0	ND	99.1	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8.09		"	8.00		101	50-150			

Matrix Spike Dup (1951007-MSD1)

Source: P912042-01

Prepared: 12/16/19 1 Analyzed: 12/18/19 1

Benzene	4.91	0.0250	mg/kg	5.00	ND	98.2	54.3-133	0.419	20	
Toluene	5.03	0.0250	"	5.00	ND	101	61.4-130	0.759	20	
Ethylbenzene	4.98	0.0250	"	5.00	ND	99.5	61.4-133	0.0813	20	
p,m-Xylene	9.89	0.0500	"	10.0	ND	98.9	63.3-131	0.0854	20	
o-Xylene	4.94	0.0250	"	5.00	ND	98.7	63.3-131	0.652	20	
Total Xylenes	14.8	0.0250	"	15.0	ND	98.9	63.3-131	0.274	20	
Surrogate: 4-Bromochlorobenzene-PID	8.00		"	8.00		100	50-150			

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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 15:35

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1951011 - DRO Extraction EPA 3570

Blank (1951011-BLK1)

Prepared: 12/17/19 0 Analyzed: 12/17/19 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	48.1		"	50.0		96.1	50-200			

LCS (1951011-BS1)

Prepared: 12/17/19 0 Analyzed: 12/17/19 1

Diesel Range Organics (C10-C28)	525	25.0	mg/kg	500		105	38-132			
Surrogate: n-Nonane	53.6		"	50.0		107	50-200			

Matrix Spike (1951011-MS1)

Source: P912042-01

Prepared: 12/17/19 0 Analyzed: 12/17/19 1

Diesel Range Organics (C10-C28)	483	25.0	mg/kg	500	ND	96.6	38-132			
Surrogate: n-Nonane	49.0		"	50.0		98.0	50-200			

Matrix Spike Dup (1951011-MSD1)

Source: P912042-01

Prepared: 12/17/19 0 Analyzed: 12/17/19 1

Diesel Range Organics (C10-C28)	467	25.0	mg/kg	500	ND	93.4	38-132	3.36	20	
Surrogate: n-Nonane	49.3		"	50.0		98.5	50-200			

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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	Reported: 12/19/19 15:35
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 1951007 - Purge and Trap EPA 5030A

Blank (1951007-BLK1)

Prepared: 12/16/19 1 Analyzed: 12/18/19 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg						
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.75		"	8.00		84.3	50-150		

LCS (1951007-BS2)

Prepared: 12/16/19 1 Analyzed: 12/18/19 1

Gasoline Range Organics (C6-C10)	47.1	20.0	mg/kg	50.0		94.2	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.74		"	8.00		84.2	50-150		

Matrix Spike (1951007-MS2)

Source: P912042-01

Prepared: 12/16/19 1 Analyzed: 12/18/19 1

Gasoline Range Organics (C6-C10)	46.9	20.0	mg/kg	50.0	ND	93.9	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.01		"	8.00		87.6	50-150		

Matrix Spike Dup (1951007-MSD2)

Source: P912042-01

Prepared: 12/16/19 1 Analyzed: 12/18/19 1

Gasoline Range Organics (C6-C10)	46.9	20.0	mg/kg	50.0	ND	93.9	70-130	0.0106	20
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.92		"	8.00		86.5	50-150		

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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 15:35

Anions by 300.0/9056A - Quality Control**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1951015 - Anion Extraction EPA 300.0/9056A**Blank (1951015-BLK1)**

Prepared: 12/17/19 0 Analyzed: 12/17/19 1

Chloride	ND	20.0	mg/kg							
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LCS (1951015-BS1)

Prepared: 12/17/19 0 Analyzed: 12/17/19 1

Chloride	252	20.0	mg/kg	250		101	90-110			
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Matrix Spike (1951015-MS1)**Source: P912042-01**

Prepared: 12/17/19 0 Analyzed: 12/17/19 1

Chloride	3910	100	mg/kg	250	3430	193	80-120			M4
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Matrix Spike Dup (1951015-MSD1)**Source: P912042-01**

Prepared: 12/17/19 0 Analyzed: 12/17/19 1

Chloride	3910	100	mg/kg	250	3430	193	80-120	0.0230	20	M4
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QC Summary Report**Comment:**

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	Reported: 12/19/19 15:35
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	

Notes and Definitions

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- ** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Chain of Custody

Client: WPR Energy

Project: East River 22 Fed Com

Project Manager: Lynda Laumbach

Address: _____

City, State, Zip: _____

Phone: _____

Email: Lynda.Laumbach@wprenergy.com

Report due by: _____

Attention: Shelly Tucker

Address: Wescom Environmental

City, State, Zip: _____

Phone: 575-499-6831

Email: shelly.tucker@wescominc.com

Lab Use Only

Lab WO# P912042

Job Number 04108-0639

TAT

1D 3D

RCRA

CWA

SDWA

Analysis and Method

DRO/ORO by 8015

GRO/DRO by 8015

BTEX by 8021

VOC by 8260

Metals 6010

Chloride 300.0

DRO-GRO-ORO

State

NM CO UT AZ

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	DRO-GRO-ORO	1D	3D	RCRA	CWA	SDWA	State	Remarks
1110	12/13/19	Soil	1	SP1-2'	1			X			X	X							
1120			1	SP1-4'	2														
1126			1	SP1-10'	3														
1135			1	SP2-2'	4														
1145			1	SP2-4'	5														
1153			1	SP3-10'	6														
1220			1	SP3-2'	7														
1225			1	SP3-4'	8														
1232			1	SP3-8'-8"	9														
1235			1	SP4-2'	10														

Additional Instructions: Sampled by: Shelly J. Tucker

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) Shelly Tucker

Date 12-16

Time 900

Received by: (Signature) Rain Lopez

Date 12-16-19

Time 900

Relinquished by: (Signature) Felix

Date 12/17/19

Time _____

Received by: (Signature) _____

Date 12/17/19

Time 11:30

Lab Use Only

Received on ice: Y / N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Project Information

Chain of Custody

Page 2 of 8

Client: <u>WPA Energy</u>					Report Attention					Lab Use Only					TAT		EPA Program					
Project: <u>East Pecos 22 Fed Com 1</u>					Report due by:					Lab WO# <u>P912042</u>					Job Number <u>04108-0631</u>		1D	3D	RCRA	CWA	SDWA	
Project Manager: <u>Lynda Laumbach</u>					Attention: <u>Shelly Tucker</u>					Analysis and Method										State		
Address:					Address: <u>Wescom Enviro</u>															NM		
City, State, Zip					City, State, Zip															CO		
Phone:					Phone: <u>575-499-6831</u>															UT		
Email: <u>Lynda.Laumbach@wpenergy.com</u>					Email: <u>Shelly.tucker@wescominc.com</u>															AZ		
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	DRO-GRO 020							Remarks			
1240	12/13/19	soil	1	SP4-4'	11			X			X	X										
1245				SP4-6'	12																	
1250				SP5-2'	13																	
1255				SP5-2' SP5-4'	14																	
1258				SP5-6'	15																	
1300				SP6-2'	16																	
1313				SP6-4'	17																	
1330				SP6-10'	18																	
1520				SP7-2'	19																	
1530				SP7-4'	20																	
Additional Instructions:																						
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.										
Relinquished by: (Signature) <u>[Signature]</u>				Date <u>12-16</u>		Time <u>900</u>		Received by: (Signature) <u>[Signature]</u>				Date <u>12-19-16</u>		Time <u>900</u>		Lab Use Only						
Relinquished by: (Signature) <u>FedEx</u>				Date <u>12/17/19</u>		Time		Received by: (Signature) <u>Rain Lopez</u>				Date <u>12/17/19</u>		Time <u>11:30</u>		Received on ice: <u>(X)</u> N						
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												T1 _____ T2 _____ T3 _____										
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.												AVG Temp °C <u>4</u>										
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																						



Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 12/17/2019

Job Number: 04108-0639

Work Order: P912043

Project Name/Location: East Pecos 22 Fed Com 1

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue rectangular background.

Date: 12/19/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



WPX (Carlsbad)
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: East Pecos 22 Fed Com 1
Project Number: 04108-0639
Project Manager: Lynda Laumbach

Reported:
12/19/19 11:28

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP8-2'	P912043-01A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.
SP8-4'	P912043-02A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.
SP8-6'	P912043-03A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.
SP9-2'	P912043-04A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.
SP9-4'	P912043-05A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.
SP9-13'	P912043-06A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.
SP10-2'	P912043-07A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.
SP10-4'	P912043-08A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.
SP11-2'	P912043-09A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.
SP11-4'	P912043-10A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.
SP11-10'	P912043-11A	Soil	12/13/19	12/17/19	Glass Jar, 4 oz.
SP12-2'	P912043-12A	Soil	12/14/19	12/17/19	Glass Jar, 4 oz.
SP12-4'	P912043-13A	Soil	12/14/19	12/17/19	Glass Jar, 4 oz.
SP12-9'	P912043-14A	Soil	12/14/19	12/17/19	Glass Jar, 4 oz.
SP13-2'	P912043-15A	Soil	12/14/19	12/17/19	Glass Jar, 4 oz.
SP13-4'	P912043-16A	Soil	12/14/19	12/17/19	Glass Jar, 4 oz.
SP13-8'	P912043-17A	Soil	12/14/19	12/17/19	Glass Jar, 4 oz.
SP14-2'	P912043-18A	Soil	12/14/19	12/17/19	Glass Jar, 4 oz.
SP14-4'	P912043-19A	Soil	12/14/19	12/17/19	Glass Jar, 4 oz.
SP14-6'	P912043-20A	Soil	12/14/19	12/17/19	Glass Jar, 4 oz.

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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 11:28

SP8-2'
P912043-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		97.1 %		70-130	1951008	12/16/19	12/17/19	EPA 8260B	
Surrogate: Toluene-d8		102 %		70-130	1951008	12/16/19	12/17/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.7 %		70-130	1951008	12/16/19	12/17/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Surrogate: n-Nonane		85.4 %		50-200	1951012	12/17/19	12/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		97.1 %		70-130	1951008	12/16/19	12/17/19	EPA 8015D	
Surrogate: Toluene-d8		102 %		70-130	1951008	12/16/19	12/17/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.7 %		70-130	1951008	12/16/19	12/17/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	155	20.0	mg/kg	1	1951016	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 11:28

SP8-4'
P912043-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		99.4 %		70-130	1951008	12/16/19	12/17/19	EPA 8260B	
Surrogate: Toluene-d8		101 %		70-130	1951008	12/16/19	12/17/19	EPA 8260B	
Surrogate: Bromofluorobenzene		99.2 %		70-130	1951008	12/16/19	12/17/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Surrogate: n-Nonane		93.8 %		50-200	1951012	12/17/19	12/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		99.4 %		70-130	1951008	12/16/19	12/17/19	EPA 8015D	
Surrogate: Toluene-d8		101 %		70-130	1951008	12/16/19	12/17/19	EPA 8015D	
Surrogate: Bromofluorobenzene		99.2 %		70-130	1951008	12/16/19	12/17/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	818	20.0	mg/kg	1	1951016	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 11:28

SP8-6'
P912043-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		98.7 %		70-130	1951008	12/16/19	12/17/19	EPA 8260B	
Surrogate: Toluene-d8		100 %		70-130	1951008	12/16/19	12/17/19	EPA 8260B	
Surrogate: Bromofluorobenzene		99.2 %		70-130	1951008	12/16/19	12/17/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Surrogate: n-Nonane		92.8 %		50-200	1951012	12/17/19	12/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		98.7 %		70-130	1951008	12/16/19	12/17/19	EPA 8015D	
Surrogate: Toluene-d8		100 %		70-130	1951008	12/16/19	12/17/19	EPA 8015D	
Surrogate: Bromofluorobenzene		99.2 %		70-130	1951008	12/16/19	12/17/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	892	20.0	mg/kg	1	1951016	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 11:28

SP9-2'
P912043-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		95.0 %		70-130	1951008	12/16/19	12/17/19	EPA 8260B	
Surrogate: Toluene-d8		101 %		70-130	1951008	12/16/19	12/17/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.7 %		70-130	1951008	12/16/19	12/17/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Surrogate: n-Nonane		92.8 %		50-200	1951012	12/17/19	12/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		95.0 %		70-130	1951008	12/16/19	12/17/19	EPA 8015D	
Surrogate: Toluene-d8		101 %		70-130	1951008	12/16/19	12/17/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.7 %		70-130	1951008	12/16/19	12/17/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	225	20.0	mg/kg	1	1951016	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 11:28

SP9-4'
P912043-05 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		100 %		70-130	1951008	12/16/19	12/17/19	EPA 8260B	
Surrogate: Toluene-d8		101 %		70-130	1951008	12/16/19	12/17/19	EPA 8260B	
Surrogate: Bromofluorobenzene		100 %		70-130	1951008	12/16/19	12/17/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Surrogate: n-Nonane		84.7 %		50-200	1951012	12/17/19	12/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		100 %		70-130	1951008	12/16/19	12/17/19	EPA 8015D	
Surrogate: Toluene-d8		101 %		70-130	1951008	12/16/19	12/17/19	EPA 8015D	
Surrogate: Bromofluorobenzene		100 %		70-130	1951008	12/16/19	12/17/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	4260	100	mg/kg	5	1951016	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	Reported: 12/19/19 11:28
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	

SP9-13'
P912043-06 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		96.0 %		70-130	1951008	12/16/19	12/17/19	EPA 8260B	
Surrogate: Toluene-d8		101 %		70-130	1951008	12/16/19	12/17/19	EPA 8260B	
Surrogate: Bromofluorobenzene		98.1 %		70-130	1951008	12/16/19	12/17/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Surrogate: n-Nonane		91.5 %		50-200	1951012	12/17/19	12/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		96.0 %		70-130	1951008	12/16/19	12/17/19	EPA 8015D	
Surrogate: Toluene-d8		101 %		70-130	1951008	12/16/19	12/17/19	EPA 8015D	
Surrogate: Bromofluorobenzene		98.1 %		70-130	1951008	12/16/19	12/17/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	75.3	20.0	mg/kg	1	1951016	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 11:28

SP10-2'
P912043-07 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		99.9 %		70-130	1951008	12/16/19	12/17/19	EPA 8260B	
Surrogate: Toluene-d8		101 %		70-130	1951008	12/16/19	12/17/19	EPA 8260B	
Surrogate: Bromofluorobenzene		98.3 %		70-130	1951008	12/16/19	12/17/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Surrogate: n-Nonane		94.5 %		50-200	1951012	12/17/19	12/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951008	12/16/19	12/17/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		99.9 %		70-130	1951008	12/16/19	12/17/19	EPA 8015D	
Surrogate: Toluene-d8		101 %		70-130	1951008	12/16/19	12/17/19	EPA 8015D	
Surrogate: Bromofluorobenzene		98.3 %		70-130	1951008	12/16/19	12/17/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	599	20.0	mg/kg	1	1951016	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	Reported: 12/19/19 11:28
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	

SP10-4'
P912043-08 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		99.2 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		99.8 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		98.3 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Surrogate: n-Nonane		87.0 %		50-200	1951012	12/17/19	12/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		99.2 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		99.8 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		98.3 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	294	20.0	mg/kg	1	1951016	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 11:28

SP11-2'
P912043-09 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		102 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		102 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		98.2 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Surrogate: n-Nonane		93.8 %		50-200	1951012	12/17/19	12/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		102 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		102 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		98.2 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	1030	40.0	mg/kg	2	1951016	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 11:28

SP11-4'
P912043-10 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		102 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		101 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		101 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Surrogate: n-Nonane		92.6 %		50-200	1951012	12/17/19	12/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		102 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		101 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		101 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	928	40.0	mg/kg	2	1951016	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	Reported: 12/19/19 11:28
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	

SP11-10'
P912043-11 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		98.4 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		102 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.9 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Surrogate: n-Nonane		92.3 %		50-200	1951012	12/17/19	12/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		98.4 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		102 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.9 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	233	20.0	mg/kg	1	1951016	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 11:28

SP12-2'
P912043-12 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		95.8 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		101 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.0 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Surrogate: n-Nonane		93.8 %		50-200	1951012	12/17/19	12/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		95.8 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		101 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.0 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	771	20.0	mg/kg	1	1951016	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 11:28

SP12-4'
P912043-13 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		100 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		102 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		99.2 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Surrogate: n-Nonane		98.9 %		50-200	1951012	12/17/19	12/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		100 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		102 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		99.2 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	847	20.0	mg/kg	1	1951016	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	Reported: 12/19/19 11:28
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	

SP12-9'
P912043-14 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		100 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		101 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		98.2 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Surrogate: n-Nonane		93.2 %		50-200	1951012	12/17/19	12/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		100 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		101 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		98.2 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	711	100	mg/kg	5	1951016	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 11:28

SP13-2'
P912043-15 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		96.3 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		100 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.2 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Surrogate: n-Nonane		87.7 %		50-200	1951012	12/17/19	12/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		96.3 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		100 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.2 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	990	20.0	mg/kg	1	1951016	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 11:28

SP13-4'
P912043-16 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		100 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		99.9 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		98.1 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Surrogate: n-Nonane		91.9 %		50-200	1951012	12/17/19	12/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		100 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		99.9 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		98.1 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	888	20.0	mg/kg	1	1951016	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 11:28

SP13-8'
P912043-17 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		96.3 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		100 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.0 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Surrogate: n-Nonane		91.8 %		50-200	1951012	12/17/19	12/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		96.3 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		100 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.0 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	978	20.0	mg/kg	1	1951016	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	Reported: 12/19/19 11:28
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	

SP14-2'
P912043-18 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		100 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		101 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.3 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Surrogate: n-Nonane		91.1 %		50-200	1951012	12/17/19	12/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		100 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		101 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.3 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	1490	20.0	mg/kg	1	1951016	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 11:28

SP14-4'
P912043-19 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		100 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		100 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		99.4 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Surrogate: n-Nonane		89.9 %		50-200	1951012	12/17/19	12/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		100 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		100 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		99.4 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	876	20.0	mg/kg	1	1951016	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	Reported: 12/19/19 11:28
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	

SP14-6'
P912043-20 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		102 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		101 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.2 %		70-130	1951008	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951012	12/17/19	12/18/19	EPA 8015D	
Surrogate: n-Nonane		92.1 %		50-200	1951012	12/17/19	12/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		102 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		101 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.2 %		70-130	1951008	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	1210	100	mg/kg	5	1951016	12/17/19	12/17/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 11:28

Volatile Organic Compounds by 8260 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1951008 - Purge and Trap EPA 5030A

Blank (1951008-BLK1)

Prepared: 12/16/19 1 Analyzed: 12/18/19 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 1,2-Dichloroethane-d4	0.496		"	0.500		99.2	70-130			
Surrogate: Toluene-d8	0.500		"	0.500		99.9	70-130			
Surrogate: Bromofluorobenzene	0.479		"	0.500		95.7	70-130			

LCS (1951008-BS1)

Prepared: 12/16/19 1 Analyzed: 12/18/19 1

Benzene	2.02	0.0250	mg/kg	2.50		80.9	70-130			
Toluene	2.03	0.0250	"	2.50		81.3	70-130			
Ethylbenzene	2.11	0.0250	"	2.50		84.6	70-130			
p,m-Xylene	4.08	0.0500	"	5.00		81.5	70-130			
o-Xylene	2.02	0.0250	"	2.50		80.8	70-130			
Total Xylenes	6.10	0.0250	"	7.50		81.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		"	0.500		101	70-130			
Surrogate: Toluene-d8	0.506		"	0.500		101	70-130			
Surrogate: Bromofluorobenzene	0.508		"	0.500		102	70-130			

Matrix Spike (1951008-MS1)

Source: P912043-01

Prepared: 12/16/19 1 Analyzed: 12/18/19 1

Benzene	2.23	0.0250	mg/kg	2.50	ND	89.0	48-131			
Toluene	2.27	0.0250	"	2.50	ND	90.6	48-130			
Ethylbenzene	2.36	0.0250	"	2.50	ND	94.3	45-135			
p,m-Xylene	4.51	0.0500	"	5.00	ND	90.2	43-135			
o-Xylene	2.26	0.0250	"	2.50	ND	90.4	43-135			
Total Xylenes	6.77	0.0250	"	7.50	ND	90.3	43-135			
Surrogate: 1,2-Dichloroethane-d4	0.507		"	0.500		101	70-130			
Surrogate: Toluene-d8	0.507		"	0.500		101	70-130			
Surrogate: Bromofluorobenzene	0.514		"	0.500		103	70-130			

Matrix Spike Dup (1951008-MSD1)

Source: P912043-01

Prepared: 12/16/19 1 Analyzed: 12/18/19 1

Benzene	2.17	0.0250	mg/kg	2.50	ND	86.9	48-131	2.39	23	
Toluene	2.24	0.0250	"	2.50	ND	89.4	48-130	1.36	24	
Ethylbenzene	2.33	0.0250	"	2.50	ND	93.2	45-135	1.11	27	
p,m-Xylene	4.50	0.0500	"	5.00	ND	89.9	43-135	0.289	27	
o-Xylene	2.24	0.0250	"	2.50	ND	89.6	43-135	0.822	27	
Total Xylenes	6.74	0.0250	"	7.50	ND	89.8	43-135	0.466	27	
Surrogate: 1,2-Dichloroethane-d4	0.501		"	0.500		100	70-130			
Surrogate: Toluene-d8	0.504		"	0.500		101	70-130			
Surrogate: Bromofluorobenzene	0.505		"	0.500		101	70-130			

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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 11:28

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1951012 - DRO Extraction EPA 3570

Blank (1951012-BLK1)

Prepared: 12/17/19 0 Analyzed: 12/18/19 0

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	45.9		"	50.0		91.8	50-200			

LCS (1951012-BS1)

Prepared: 12/17/19 0 Analyzed: 12/18/19 0

Diesel Range Organics (C10-C28)	535	25.0	mg/kg	500		107	38-132			
Surrogate: n-Nonane	56.7		"	50.0		113	50-200			

Matrix Spike (1951012-MS1)

Source: P912043-01

Prepared: 12/17/19 0 Analyzed: 12/18/19 0

Diesel Range Organics (C10-C28)	473	25.0	mg/kg	500	ND	94.7	38-132			
Surrogate: n-Nonane	50.5		"	50.0		101	50-200			

Matrix Spike Dup (1951012-MSD1)

Source: P912043-01

Prepared: 12/17/19 0 Analyzed: 12/18/19 0

Diesel Range Organics (C10-C28)	475	25.0	mg/kg	500	ND	95.0	38-132	0.334	20	
Surrogate: n-Nonane	50.4		"	50.0		101	50-200			

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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 11:28

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1951008 - Purge and Trap EPA 5030A

Blank (1951008-BLK1)

Prepared: 12/16/19 1 Analyzed: 12/18/19 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.496		"	0.500		99.2	70-130			
Surrogate: Toluene-d8	0.500		"	0.500		99.9	70-130			
Surrogate: Bromofluorobenzene	0.479		"	0.500		95.7	70-130			

LCS (1951008-BS2)

Prepared: 12/16/19 1 Analyzed: 12/18/19 1

Gasoline Range Organics (C6-C10)	52.0	20.0	mg/kg	50.0		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		"	0.500		97.7	70-130			
Surrogate: Toluene-d8	0.509		"	0.500		102	70-130			
Surrogate: Bromofluorobenzene	0.479		"	0.500		95.8	70-130			

Matrix Spike (1951008-MS2)

Source: P912043-01

Prepared: 12/16/19 1 Analyzed: 12/18/19 1

Gasoline Range Organics (C6-C10)	54.5	20.0	mg/kg	50.0	ND	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		"	0.500		98.7	70-130			
Surrogate: Toluene-d8	0.510		"	0.500		102	70-130			
Surrogate: Bromofluorobenzene	0.490		"	0.500		97.9	70-130			

Matrix Spike Dup (1951008-MSD2)

Source: P912043-01

Prepared: 12/16/19 1 Analyzed: 12/18/19 1

Gasoline Range Organics (C6-C10)	50.4	20.0	mg/kg	50.0	ND	101	70-130	7.87	20	
Surrogate: 1,2-Dichloroethane-d4	0.504		"	0.500		101	70-130			
Surrogate: Toluene-d8	0.506		"	0.500		101	70-130			
Surrogate: Bromofluorobenzene	0.495		"	0.500		99.0	70-130			

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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 11:28

Anions by 300.0/9056A - Quality Control**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1951016 - Anion Extraction EPA 300.0/9056A**Blank (1951016-BLK1)**

Prepared: 12/17/19 0 Analyzed: 12/17/19 1

Chloride	ND	20.0	mg/kg							
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LCS (1951016-BS1)

Prepared: 12/17/19 0 Analyzed: 12/17/19 1

Chloride	237	20.0	mg/kg	250		94.6	90-110			
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Matrix Spike (1951016-MS1)**Source: P912043-01**

Prepared: 12/17/19 0 Analyzed: 12/17/19 1

Chloride	384	20.0	mg/kg	250	155	91.3	80-120			
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Matrix Spike Dup (1951016-MSD1)**Source: P912043-01**

Prepared: 12/17/19 0 Analyzed: 12/17/19 1

Chloride	378	20.0	mg/kg	250	155	89.1	80-120	1.45	20	
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QC Summary Report**Comment:**

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	Reported: 12/19/19 11:28
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Project Information

Chain of Custody

Page 3 of 8

Client: <u>WP4 Energy</u>		Report Attention		Lab Use Only		TAT		EPA Program				
Project: <u>East Pecos 22 Field</u>		Report due by:		Lab WO# <u>P912043</u>		Job Number <u>0639</u>		1D	3D	RCRA	CWA	SDWA
Project Manager: <u>Lynda Laumbach</u>		Attention: <u>Sherry Tucker</u>		Address: <u>Westcom Inc</u>		Analysis and Method		State				
Address:		City, State, Zip		Phone: <u>575-499-6831</u>				NM CO UT AZ				
City, State, Zip		Email: <u>Sherry.Tucker@westcominc.com</u>		Email: <u>Sherry.Tucker@westcominc.com</u>				Remarks				
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Number	DRO/O by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	
1445	12/13/19	Soil	1	SP 8-2'	1			X			X	X
1455				SP 8-4'	2							
1505				SP 8-6'	3							
1420				SP 9-2'	4							
1430				SP 9-4'	5							
1513				SP 9-13'	6							
1600				SP 10-2'	7							
1605				SP 10-4'	8							
1615				SP 11-2	9							
1622				SP 11-4	10							
Additional Instructions:												
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.						
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only				
<u>Sherry Tucker</u>		12-16	900	<u>Sherry Tucker</u>		12-16-19	900	Received on ice: <u>Y</u> N				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3				
<u>Fred Ex</u>		12/17/19		<u>Raina Lopez</u>		12/17/19	11:30	AVG Temp °C <u>4</u>				
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA						
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.												

Project Information

Chain of Custody

Page 4 of 8

Client: <u>WPR Energy</u>					Report Attention		Lab Use Only				TAT		EPA Program									
Project: <u>East Pecos 22 Fed/Com 1</u>					Report due by:		Lab WO# <u>PC12043</u>		Job Number <u>04168-0639</u>		1D	3D	RCRA	CWA	SDWA							
Project Manager: <u>Lynda Lumbach</u>					Attention: <u>Shelly Tucker</u>		Analysis and Method									State						
Address:					Address: <u>Wescom Envir</u>											NM				CO	UT	AZ
City, State, Zip					City, State, Zip		DRO/ORO by 8015		GRO/DRO by 8015		BTX by 8021		VOC by 8260		Metals 6010		Chloride 300.0		DRO 620		Remarks	
Phone:					Phone: <u>575-499-6831</u>																	
Email: <u>Lynda.Lumbach@wprenergy.com</u>					Email: <u>Shelly.Tucker@wescomenvi.com</u>																	
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number																	
11632	12-16-19	Soil	1	SP11-10'	11																	
0915	12/17/19			SP12-2'	12																	
0927	12/17/19			SP12-4'	13																	
0943				SP12-9'	14																	
0947				SP13-2'	15																	
0958				SP13-4'	16																	
1020				SP13-8'	17																	
1027				SP14-2'	18																	
1031				SP14-4'	19																	
1045				SP14-6'	20																	
Additional Instructions:																						
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:											Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only										
<u>[Signature]</u>		12-16		900		<u>[Signature]</u>		12-16-19		900		Received on ice: <u>Y</u> N										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3										
<u>FedEx</u>		12/17/19				<u>Raina Lopez</u>		12/17/19		11:30		AVG Temp °C <u>4</u>										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other											Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA											
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																						



Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 12/17/2019

Job Number: 04108-0639

Work Order: P912044

Project Name/Location: East Pecos 22 Fed Com 1

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is placed over a light blue rectangular background.

Date: 12/19/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



WPX (Carlsbad)
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: East Pecos 22 Fed Com 1
Project Number: 04108-0639
Project Manager: Lynda Laumbach

Reported:
12/19/19 13:22

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP15-2'	P912044-01A	Soil	12/14/19	12/17/19	Glass Jar, 4 oz.
SP15-4'	P912044-02A	Soil	12/14/19	12/17/19	Glass Jar, 4 oz.
SP16-2'	P912044-03A	Soil	12/14/19	12/17/19	Glass Jar, 4 oz.
SP16-4'	P912044-04A	Soil	12/14/19	12/17/19	Glass Jar, 4 oz.
SP17-2'	P912044-05A	Soil	12/14/19	12/17/19	Glass Jar, 4 oz.
SP17-4'	P912044-06A	Soil	12/14/19	12/17/19	Glass Jar, 4 oz.
SP17-12'	P912044-07A	Soil	12/14/19	12/17/19	Glass Jar, 4 oz.
SP18-2'	P912044-08A	Soil	12/14/19	12/17/19	Glass Jar, 4 oz.
SP18-4'	P912044-09A	Soil	12/14/19	12/17/19	Glass Jar, 4 oz.
SP19-2'	P912044-10A	Soil	12/14/19	12/17/19	Glass Jar, 4 oz.
SP19-4'	P912044-11A	Soil	12/14/19	12/17/19	Glass Jar, 4 oz.
SP19-6'	P912044-12A	Soil	12/14/19	12/17/19	Glass Jar, 4 oz.
SP20-2'	P912044-13A	Soil	12/14/19	12/17/19	Glass Jar, 4 oz.
SP20-4'	P912044-14A	Soil	12/14/19	12/17/19	Glass Jar, 4 oz.
SP20-6'	P912044-15A	Soil	12/14/19	12/17/19	Glass Jar, 4 oz.
SP21-2'	P912044-16A	Soil	12/14/19	12/17/19	Glass Jar, 4 oz.
SP21-4'	P912044-17A	Soil	12/14/19	12/17/19	Glass Jar, 4 oz.
SP22-2'	P912044-18A	Soil	12/14/19	12/17/19	Glass Jar, 4 oz.
SP22-4'	P912044-19A	Soil	12/14/19	12/17/19	Glass Jar, 4 oz.
SP22-6'	P912044-20A	Soil	12/14/19	12/17/19	Glass Jar, 4 oz.

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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	Reported: 12/19/19 13:22
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	

SP15-2'
P912044-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		103 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		96.9 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		95.4 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951013	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951013	12/17/19	12/17/19	EPA 8015D	
Surrogate: n-Nonane		87.3 %		50-200	1951013	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		103 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		96.9 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		95.4 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	841	20.0	mg/kg	1	1951017	12/17/19	12/18/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	Reported: 12/19/19 13:22
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	

SP15-4'
P912044-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		107 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		97.4 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		92.3 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951013	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951013	12/17/19	12/17/19	EPA 8015D	
Surrogate: n-Nonane		87.5 %		50-200	1951013	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		107 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		97.4 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		92.3 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	418	20.0	mg/kg	1	1951017	12/17/19	12/18/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 13:22

SP16-2'
P912044-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		102 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		97.0 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		95.1 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951013	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951013	12/17/19	12/17/19	EPA 8015D	
Surrogate: n-Nonane		82.0 %		50-200	1951013	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		102 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		97.0 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		95.1 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	3890	100	mg/kg	5	1951017	12/17/19	12/18/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 13:22

SP16-4'
P912044-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		104 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		95.4 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		90.6 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951013	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951013	12/17/19	12/17/19	EPA 8015D	
Surrogate: n-Nonane		79.9 %		50-200	1951013	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		104 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		95.4 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		90.6 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	1500	20.0	mg/kg	1	1951017	12/17/19	12/18/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 13:22

SP17-2'
P912044-05 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		105 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		97.0 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		91.6 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951013	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951013	12/17/19	12/17/19	EPA 8015D	
Surrogate: n-Nonane		89.3 %		50-200	1951013	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		105 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		97.0 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		91.6 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	897	20.0	mg/kg	1	1951017	12/17/19	12/18/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	Reported: 12/19/19 13:22
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	

SP17-4'
P912044-06 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		105 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		95.7 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		92.6 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951013	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951013	12/17/19	12/17/19	EPA 8015D	
Surrogate: n-Nonane		77.2 %		50-200	1951013	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		105 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		95.7 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		92.6 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	1010	20.0	mg/kg	1	1951017	12/17/19	12/18/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 13:22

SP17-12'
P912044-07 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		110 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		96.9 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		91.8 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951013	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951013	12/17/19	12/17/19	EPA 8015D	
Surrogate: n-Nonane		86.3 %		50-200	1951013	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		110 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		96.9 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		91.8 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	163	20.0	mg/kg	1	1951017	12/17/19	12/18/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	Reported: 12/19/19 13:22
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	

SP18-2'
P912044-08 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		106 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		95.1 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		92.8 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951013	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951013	12/17/19	12/17/19	EPA 8015D	
Surrogate: n-Nonane		83.1 %		50-200	1951013	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		106 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		95.1 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		92.8 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	678	20.0	mg/kg	1	1951017	12/17/19	12/18/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	Reported: 12/19/19 13:22
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	

SP18-4'
P912044-09 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		106 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		96.6 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		93.2 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951013	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951013	12/17/19	12/17/19	EPA 8015D	
Surrogate: n-Nonane		86.3 %		50-200	1951013	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		106 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		96.6 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		93.2 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	22.8	20.0	mg/kg	1	1951017	12/17/19	12/18/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	Reported: 12/19/19 13:22
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	

SP19-2'
P912044-10 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		106 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		97.3 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		91.6 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951013	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951013	12/17/19	12/17/19	EPA 8015D	
Surrogate: n-Nonane		86.9 %		50-200	1951013	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		106 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		97.3 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		91.6 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	187	20.0	mg/kg	1	1951017	12/17/19	12/18/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	Reported: 12/19/19 13:22
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	

SP19-4'
P912044-11 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		97.8 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		101 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.4 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951013	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951013	12/17/19	12/17/19	EPA 8015D	
Surrogate: n-Nonane		84.6 %		50-200	1951013	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		97.8 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		101 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.4 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	1730	100	mg/kg	5	1951017	12/17/19	12/18/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 13:22

SP19-6'
P912044-12 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		102 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		100 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.6 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951013	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951013	12/17/19	12/17/19	EPA 8015D	
Surrogate: n-Nonane		72.8 %		50-200	1951013	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		102 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		100 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.6 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	279	20.0	mg/kg	1	1951017	12/17/19	12/18/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	Reported: 12/19/19 13:22
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	

SP20-2'
P912044-13 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		99.6 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		102 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		95.9 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951013	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951013	12/17/19	12/17/19	EPA 8015D	
Surrogate: n-Nonane		85.6 %		50-200	1951013	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		99.6 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		102 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		95.9 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	4750	100	mg/kg	5	1951017	12/17/19	12/18/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 13:22

SP20-4'
P912044-14 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		99.2 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		99.4 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.9 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951013	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951013	12/17/19	12/17/19	EPA 8015D	
Surrogate: n-Nonane		84.5 %		50-200	1951013	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		99.2 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		99.4 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.9 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	1190	20.0	mg/kg	1	1951017	12/17/19	12/18/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	Reported: 12/19/19 13:22
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	

SP20-6'
P912044-15 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		100 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		101 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.2 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951013	12/17/19	12/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951013	12/17/19	12/17/19	EPA 8015D	
Surrogate: n-Nonane		88.0 %		50-200	1951013	12/17/19	12/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		100 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		101 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.2 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	46.1	20.0	mg/kg	1	1951017	12/17/19	12/18/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	Reported: 12/19/19 13:22
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	

SP21-2'
P912044-16 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		97.6 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		100 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		99.3 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951013	12/17/19	12/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951013	12/17/19	12/18/19	EPA 8015D	
Surrogate: n-Nonane		90.9 %		50-200	1951013	12/17/19	12/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		97.6 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		100 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		99.3 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	1390	40.0	mg/kg	2	1951017	12/17/19	12/18/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 13:22

SP21-4'
P912044-17 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		100 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		102 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		98.4 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951013	12/17/19	12/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951013	12/17/19	12/18/19	EPA 8015D	
Surrogate: n-Nonane		88.0 %		50-200	1951013	12/17/19	12/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		100 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		102 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		98.4 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	609	20.0	mg/kg	1	1951017	12/17/19	12/18/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 13:22

SP22-2'
P912044-18 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		104 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		99.9 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.9 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951013	12/17/19	12/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951013	12/17/19	12/18/19	EPA 8015D	
Surrogate: n-Nonane		88.1 %		50-200	1951013	12/17/19	12/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		104 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		99.9 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.9 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	6030	100	mg/kg	5	1951017	12/17/19	12/18/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 13:22

SP22-4'
P912044-19 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		99.4 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		100 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		96.9 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951013	12/17/19	12/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951013	12/17/19	12/18/19	EPA 8015D	
Surrogate: n-Nonane		84.1 %		50-200	1951013	12/17/19	12/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		99.4 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		100 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		96.9 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	5760	100	mg/kg	5	1951017	12/17/19	12/18/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	Reported: 12/19/19 13:22
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	

SP22-6'
P912044-20 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		105 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Toluene-d8		101 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		96.6 %		70-130	1951009	12/16/19	12/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951013	12/17/19	12/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951013	12/17/19	12/18/19	EPA 8015D	
Surrogate: n-Nonane		84.6 %		50-200	1951013	12/17/19	12/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		105 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Toluene-d8		101 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		96.6 %		70-130	1951009	12/16/19	12/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	771	20.0	mg/kg	1	1951017	12/17/19	12/18/19	EPA 300.0/9056A	
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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	Reported: 12/19/19 13:22
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	

Volatile Organic Compounds by 8260 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1951009 - Purge and Trap EPA 5030A

Blank (1951009-BLK1)

Prepared: 12/16/19 1 Analyzed: 12/18/19 0

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 1,2-Dichloroethane-d4	0.535		"	0.500		107	70-130			
Surrogate: Toluene-d8	0.476		"	0.500		95.2	70-130			
Surrogate: Bromofluorobenzene	0.465		"	0.500		92.9	70-130			

LCS (1951009-BS1)

Prepared: 12/16/19 1 Analyzed: 12/18/19 0

Benzene	2.28	0.0250	mg/kg	2.50		91.2	70-130			
Toluene	2.21	0.0250	"	2.50		88.5	70-130			
Ethylbenzene	2.24	0.0250	"	2.50		89.5	70-130			
p,m-Xylene	4.64	0.0500	"	5.00		92.7	70-130			
o-Xylene	2.20	0.0250	"	2.50		87.9	70-130			
Total Xylenes	6.84	0.0250	"	7.50		91.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.527		"	0.500		105	70-130			
Surrogate: Toluene-d8	0.499		"	0.500		99.8	70-130			
Surrogate: Bromofluorobenzene	0.488		"	0.500		97.5	70-130			

Matrix Spike (1951009-MS1)

Source: P912044-01

Prepared: 12/16/19 1 Analyzed: 12/18/19 1

Benzene	2.41	0.0250	mg/kg	2.50	ND	96.4	48-131			
Toluene	2.33	0.0250	"	2.50	ND	93.1	48-130			
Ethylbenzene	2.34	0.0250	"	2.50	ND	93.7	45-135			
p,m-Xylene	4.87	0.0500	"	5.00	ND	97.4	43-135			
o-Xylene	2.32	0.0250	"	2.50	ND	92.9	43-135			
Total Xylenes	7.19	0.0250	"	7.50	ND	95.9	43-135			
Surrogate: 1,2-Dichloroethane-d4	0.518		"	0.500		104	70-130			
Surrogate: Toluene-d8	0.491		"	0.500		98.2	70-130			
Surrogate: Bromofluorobenzene	0.488		"	0.500		97.6	70-130			

Matrix Spike Dup (1951009-MSD1)

Source: P912044-01

Prepared: 12/16/19 1 Analyzed: 12/18/19 1

Benzene	2.23	0.0250	mg/kg	2.50	ND	89.1	48-131	7.92	23	
Toluene	2.15	0.0250	"	2.50	ND	86.1	48-130	7.79	24	
Ethylbenzene	2.18	0.0250	"	2.50	ND	87.2	45-135	7.14	27	
p,m-Xylene	4.53	0.0500	"	5.00	ND	90.5	43-135	7.29	27	
o-Xylene	2.16	0.0250	"	2.50	ND	86.6	43-135	7.11	27	
Total Xylenes	6.69	0.0250	"	7.50	ND	89.2	43-135	7.23	27	
Surrogate: 1,2-Dichloroethane-d4	0.516		"	0.500		103	70-130			
Surrogate: Toluene-d8	0.497		"	0.500		99.3	70-130			
Surrogate: Bromofluorobenzene	0.490		"	0.500		98.0	70-130			

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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 13:22

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1951013 - DRO Extraction EPA 3570

Blank (1951013-BLK1)

Prepared: 12/17/19 0 Analyzed: 12/17/19 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	43.8		"	50.0		87.6	50-200			

LCS (1951013-BS1)

Prepared: 12/17/19 0 Analyzed: 12/17/19 1

Diesel Range Organics (C10-C28)	461	25.0	mg/kg	500		92.3	38-132			
Surrogate: n-Nonane	46.0		"	50.0		92.0	50-200			

Matrix Spike (1951013-MS1)

Source: P912044-01

Prepared: 12/17/19 0 Analyzed: 12/17/19 1

Diesel Range Organics (C10-C28)	464	25.0	mg/kg	500	ND	92.9	38-132			
Surrogate: n-Nonane	47.0		"	50.0		94.0	50-200			

Matrix Spike Dup (1951013-MSD1)

Source: P912044-01

Prepared: 12/17/19 0 Analyzed: 12/17/19 1

Diesel Range Organics (C10-C28)	529	25.0	mg/kg	500	ND	106	38-132	13.0	20	
Surrogate: n-Nonane	52.9		"	50.0		106	50-200			

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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 13:22

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1951009 - Purge and Trap EPA 5030A

Blank (1951009-BLK1)

Prepared: 12/16/19 1 Analyzed: 12/18/19 0

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.535		"	0.500		107	70-130			
Surrogate: Toluene-d8	0.476		"	0.500		95.2	70-130			
Surrogate: Bromofluorobenzene	0.465		"	0.500		92.9	70-130			

LCS (1951009-BS2)

Prepared: 12/16/19 1 Analyzed: 12/18/19 0

Gasoline Range Organics (C6-C10)	40.7	20.0	mg/kg	50.0		81.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		"	0.500		101	70-130			
Surrogate: Toluene-d8	0.505		"	0.500		101	70-130			
Surrogate: Bromofluorobenzene	0.472		"	0.500		94.4	70-130			

Matrix Spike (1951009-MS2)

Source: P912044-01

Prepared: 12/16/19 1 Analyzed: 12/18/19 1

Gasoline Range Organics (C6-C10)	40.5	20.0	mg/kg	50.0	ND	81.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		"	0.500		102	70-130			
Surrogate: Toluene-d8	0.500		"	0.500		99.9	70-130			
Surrogate: Bromofluorobenzene	0.487		"	0.500		97.4	70-130			

Matrix Spike Dup (1951009-MSD2)

Source: P912044-01

Prepared: 12/16/19 1 Analyzed: 12/18/19 1

Gasoline Range Organics (C6-C10)	40.4	20.0	mg/kg	50.0	ND	80.7	70-130	0.411	20	
Surrogate: 1,2-Dichloroethane-d4	0.497		"	0.500		99.3	70-130			
Surrogate: Toluene-d8	0.496		"	0.500		99.1	70-130			
Surrogate: Bromofluorobenzene	0.469		"	0.500		93.8	70-130			

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WPX (Carlsbad)	Project Name:	East Pecos 22 Fed Com 1	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	12/19/19 13:22

Anions by 300.0/9056A - Quality Control**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1951017 - Anion Extraction EPA 300.0/9056A**Blank (1951017-BLK1)**

Prepared: 12/17/19 0 Analyzed: 12/17/19 1

Chloride	ND	20.0	mg/kg							
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LCS (1951017-BS1)

Prepared: 12/17/19 0 Analyzed: 12/17/19 1

Chloride	252	20.0	mg/kg	250		101	90-110			
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Matrix Spike (1951017-MS1)**Source: P912044-01**

Prepared: 12/17/19 0 Analyzed: 12/18/19 0

Chloride	1250	20.0	mg/kg	250	841	162	80-120			M2
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Matrix Spike Dup (1951017-MSD1)**Source: P912044-01**

Prepared: 12/17/19 0 Analyzed: 12/18/19 0

Chloride	1220	20.0	mg/kg	250	841	150	80-120	2.42	20	M2
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QC Summary Report**Comment:**

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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WPX (Carlsbad) 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: East Pecos 22 Fed Com 1 Project Number: 04108-0639 Project Manager: Lynda Laumbach	Reported: 12/19/19 13:22
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Notes and Definitions

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Project Information

Chain of Custody

Page 5 of 8

Client: <u>LDV Energy</u>					Report Attention		Lab Use Only				TAT		EPA Program					
Project: <u>East Pecos 22 Fld Cam 1</u>					Report due by:		Lab WO#		Job Number		1D	3D	RCRA	CWA	SDWA			
Project Manager: <u>Lynda Laumbach</u>					Attention: <u>Shelly Tucker</u>		<u>P912044</u>		<u>04103-0639</u>									
Address:					Address: <u>Wellcom Inc</u>		Analysis and Method								State			
City, State, Zip					City, State, Zip		DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	DRO GRO ORO					
Phone:					Phone: <u>575-499-6831</u>													
Email: <u>Lynda.Laumbach@ldvenergy.com</u>					Email: <u>Shelly.Tucker@wellcominc.com</u>													
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	Remarks												
1052	12/14/19	Soil	1	SP15-2'	1			X			X	X						
1057	12/14	Soil	1	SP15-4'	2			X			X	X						
1103	12/14	Soil	1	SP16-2'	3			X			X	X						
1109	12/14	Soil	1	SP16-4'	4			X			X	X						
1120	12/14	Soil	1	SP17-2'	5			X			X	X						
1125	12/14	Soil	1	SP17-4'	6			X			X	X						
1140	12/14	Soil	1	SP17-12'	7			X			X	X						
1146	12/14	Soil	1	SP18-2'	8			X			X	X						
1147	12/14	Soil	1	SP18-4'	9			X			X	X						
1154	12/14	Soil	1	SP19-2'	10			X			X	X						
Additional Instructions:																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:											Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.							
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only										
<u>[Signature]</u>		12-16	900	<u>[Signature]</u>		12-16-19	900	Received on ice: <u>Y</u> / N										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3										
<u>FedEx</u>		12/17/19		<u>Rania Lopez</u>		12/17/19	11:30	AVG Temp °C <u>4</u>										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other								Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		

Project Information

Chain of Custody

Page 6 of 8

Client: <u>WDP Energy</u>					Report Attention		Lab Use Only				TAT		EPA Program							
Project: <u>East Perros 20 Field Com</u>					Report due by:		Lab WO#		Job Number		1D	3D	RCRA	CWA	SDWA					
Project Manager: <u>Lynda Laumbach</u>					Attention: <u>Shelly Tucker</u>		<u>P912044</u>		<u>04108-0639</u>											
Address:					Address: <u>Wescom Inc</u>		Analysis and Method								State					
City, State, Zip					City, State, Zip: <u>575-499-6831</u>		DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0					NM	CO	UT	AZ
Phone:					Phone: <u>Shelly Tucker@wescominc.com</u>															
Email: <u>lynda.laumbach@wprenergy.com</u>					Email: <u>Shelly Tucker@wescominc.com</u>															
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number											Remarks				
1159	12/14/19	Soil	1	SP19-4'	11			X			X	X								
1205	12/14	Soil	1	SP19-6'	12			X			X	X								
1210	12/14	Soil	1	SP20-2'	13						X	X								
1220	12/14	Soil	1	SP20-4'	14			X			X	X								
1238	12/14	Soil	1	SP20-6'	15			X			X	X								
1323	12/14	Soil	1	SP21-2'	16			X			X	X								
1327	12/14	Soil	1	SP21-4'	17			X			X	X								
1338	12/14	Soil	1	SP22-2'	18			X			X	X								
1343	12/14	Soil	1	SP22-4'	19			X			X	X								
1351	12/14	Soil	1	SP22-6'	20			X			X	X								
Additional Instructions:																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only								
<u>Shelly Tucker</u>		12-16		900		<u>[Signature]</u>		12-16-19		900		Received on ice: <u>Y</u> / N								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3								
<u>FedEx</u>		12/17/19				<u>Raia Lopez</u>		12/17/19		11:30		AVG Temp °C <u>4</u>								
Sample Matrix: S - Soil, SD - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				



Analytical Report

Report Summary

Client: WPX Energy - Carlsbad

Samples Received: 4/22/2020

Job Number: 04108-0639

Work Order: P004123

Project Name/Location: East Pecos Federal 22-1H

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue rectangular background.

Date: 4/27/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: East Pecos Federal 22-1H
Project Number: 04108-0639
Project Manager: Joseph Hernandez

Reported:
04/27/20 10:54

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 @ 0.5 ft	P004123-01A	Soil	04/20/20	04/22/20	Glass Jar, 4 oz.
PH01A @ 2 ft	P004123-02A	Soil	04/20/20	04/22/20	Glass Jar, 4 oz.
PH02 @ 0.5 ft	P004123-03A	Soil	04/20/20	04/22/20	Glass Jar, 4 oz.
PH02A @ 2 ft	P004123-04A	Soil	04/20/20	04/22/20	Glass Jar, 4 oz.
PH03 @ 0.5 ft	P004123-05A	Soil	04/20/20	04/22/20	Glass Jar, 4 oz.
PH03A @ 2 ft	P004123-06A	Soil	04/20/20	04/22/20	Glass Jar, 4 oz.
PH04 @ 0.5 ft	P004123-07A	Soil	04/20/20	04/22/20	Glass Jar, 4 oz.
PH04A @ 2.5 ft	P004123-08A	Soil	04/20/20	04/22/20	Glass Jar, 4 oz.
PH05 @ 0.5 ft	P004123-09A	Soil	04/20/20	04/22/20	Glass Jar, 4 oz.
PH05A @ 2 ft	P004123-10A	Soil	04/20/20	04/22/20	Glass Jar, 4 oz.
PH06 @ 0.5 ft	P004123-11A	Soil	04/20/20	04/22/20	Glass Jar, 4 oz.
PH06A @ 2 ft	P004123-12A	Soil	04/20/20	04/22/20	Glass Jar, 4 oz.
PH07 @ 0.5 ft	P004123-13A	Soil	04/20/20	04/22/20	Glass Jar, 4 oz.
PH07A @ 2.5 ft	P004123-14A	Soil	04/20/20	04/22/20	Glass Jar, 4 oz.
PH08 @ 0.5 ft	P004123-15A	Soil	04/20/20	04/22/20	Glass Jar, 4 oz.
PH08A @ 2.5 ft	P004123-16A	Soil	04/20/20	04/22/20	Glass Jar, 4 oz.

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WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-1H	Reported: 04/27/20 10:54
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	

PH01 @ 0.5 ft
P004123-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %		50-150	2017027	04/22/20	04/22/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	154	25.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		86.5 %		50-200	2017037	04/23/20	04/23/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.0 %		50-150	2017027	04/22/20	04/22/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	6070	100	mg/kg	5	2017031	04/22/20	04/23/20	EPA 300.0/9056A	
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WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-1H	Reported: 04/27/20 10:54
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	

PH01A @ 2 ft
P004123-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %		50-150	2017027	04/22/20	04/22/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	1360	25.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		103 %		50-200	2017037	04/23/20	04/23/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.1 %		50-150	2017027	04/22/20	04/22/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	3320	100	mg/kg	5	2017031	04/22/20	04/23/20	EPA 300.0/9056A	
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WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-1H	Reported: 04/27/20 10:54
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	

PH02 @ 0.5 ft
P004123-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %		50-150	2017027	04/22/20	04/22/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		80.5 %		50-200	2017037	04/23/20	04/23/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.9 %		50-150	2017027	04/22/20	04/22/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	1490	40.0	mg/kg	2	2017031	04/22/20	04/23/20	EPA 300.0/9056A	
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WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-1H	Reported: 04/27/20 10:54
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	

PH02A @ 2 ft
P004123-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %		50-150	2017027	04/22/20	04/22/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		86.6 %		50-200	2017037	04/23/20	04/23/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.9 %		50-150	2017027	04/22/20	04/22/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	3060	40.0	mg/kg	2	2017031	04/22/20	04/23/20	EPA 300.0/9056A	
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WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-1H	Reported: 04/27/20 10:54
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	

PH03 @ 0.5 ft
P004123-05 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %		50-150	2017027	04/22/20	04/22/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		79.7 %		50-200	2017037	04/23/20	04/23/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.6 %		50-150	2017027	04/22/20	04/22/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	3350	100	mg/kg	5	2017031	04/22/20	04/23/20	EPA 300.0/9056A	
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WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-1H	Reported: 04/27/20 10:54
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	

PH03A @ 2 ft
P004123-06 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %		50-150	2017027	04/22/20	04/22/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		80.9 %		50-200	2017037	04/23/20	04/23/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.1 %		50-150	2017027	04/22/20	04/22/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	4870	100	mg/kg	5	2017031	04/22/20	04/23/20	EPA 300.0/9056A	
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WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-1H	Reported: 04/27/20 10:54
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	

PH04 @ 0.5 ft
P004123-07 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %		50-150	2017027	04/22/20	04/22/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	55.3	25.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		88.1 %		50-200	2017037	04/23/20	04/23/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.5 %		50-150	2017027	04/22/20	04/22/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	4380	100	mg/kg	5	2017031	04/22/20	04/23/20	EPA 300.0/9056A	
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WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-1H	Reported: 04/27/20 10:54
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	

PH04A @ 2.5 ft
P004123-08 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %		50-150	2017027	04/22/20	04/22/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	41.8	25.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		85.7 %		50-200	2017037	04/23/20	04/23/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017027	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.2 %		50-150	2017027	04/22/20	04/22/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	2680	40.0	mg/kg	2	2017031	04/22/20	04/23/20	EPA 300.0/9056A	
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WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-1H	Reported: 04/27/20 10:54
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	

PH05 @ 0.5 ft
P004123-09 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %		50-150	2017027	04/22/20	04/23/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		88.9 %		50-200	2017037	04/23/20	04/23/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.5 %		50-150	2017027	04/22/20	04/23/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	369	20.0	mg/kg	1	2017031	04/22/20	04/23/20	EPA 300.0/9056A	
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WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-1H	Reported: 04/27/20 10:54
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	

PH05A @ 2 ft
P004123-10 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %		50-150	2017027	04/22/20	04/23/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		92.4 %		50-200	2017037	04/23/20	04/23/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.6 %		50-150	2017027	04/22/20	04/23/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	507	20.0	mg/kg	1	2017031	04/22/20	04/23/20	EPA 300.0/9056A	
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WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-1H	Reported: 04/27/20 10:54
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	

PH06 @ 0.5 ft
P004123-11 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %		50-150	2017027	04/22/20	04/23/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		84.1 %		50-200	2017037	04/23/20	04/23/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.7 %		50-150	2017027	04/22/20	04/23/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	30.7	20.0	mg/kg	1	2017031	04/22/20	04/23/20	EPA 300.0/9056A	
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WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-1H	Reported: 04/27/20 10:54
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	

PH06A @ 2 ft
P004123-12 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %		50-150	2017027	04/22/20	04/23/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		88.4 %		50-200	2017037	04/23/20	04/23/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.3 %		50-150	2017027	04/22/20	04/23/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	131	20.0	mg/kg	1	2017031	04/22/20	04/23/20	EPA 300.0/9056A	
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WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-1H	Reported: 04/27/20 10:54
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	

PH07 @ 0.5 ft
P004123-13 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %		50-150	2017027	04/22/20	04/23/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		86.2 %		50-200	2017037	04/23/20	04/23/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.2 %		50-150	2017027	04/22/20	04/23/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	3520	40.0	mg/kg	2	2017031	04/22/20	04/23/20	EPA 300.0/9056A	
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WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-1H	Reported: 04/27/20 10:54
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	

PH07A @ 2.5 ft
P004123-14 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %		50-150	2017027	04/22/20	04/23/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		89.6 %		50-200	2017037	04/23/20	04/23/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.4 %		50-150	2017027	04/22/20	04/23/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	3440	40.0	mg/kg	2	2017031	04/22/20	04/23/20	EPA 300.0/9056A	
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WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-1H	Reported: 04/27/20 10:54
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	

PH08 @ 0.5 ft
P004123-15 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %		50-150	2017027	04/22/20	04/23/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		88.8 %		50-200	2017037	04/23/20	04/23/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.0 %		50-150	2017027	04/22/20	04/23/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	4580	100	mg/kg	5	2017031	04/22/20	04/23/20	EPA 300.0/9056A	
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WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-1H	Reported: 04/27/20 10:54
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	

PH08A @ 2.5 ft
P004123-16 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %		50-150	2017027	04/22/20	04/23/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017037	04/23/20	04/23/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		77.4 %		50-200	2017037	04/23/20	04/23/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017027	04/22/20	04/23/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.6 %		50-150	2017027	04/22/20	04/23/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	787	20.0	mg/kg	1	2017031	04/22/20	04/23/20	EPA 300.0/9056A	
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WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-1H	Reported: 04/27/20 10:54
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	

Volatile Organics by EPA 8021 - Quality Control**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2017027 - Purge and Trap EPA 5030A**Blank (2017027-BLK1)**

Prepared & Analyzed: 04/22/20 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.24		"	8.00		103	50-150			

LCS (2017027-BS1)

Prepared & Analyzed: 04/22/20 1

Benzene	5.11	0.0250	mg/kg	5.00		102	70-130			
Toluene	5.11	0.0250	"	5.00		102	70-130			
Ethylbenzene	5.10	0.0250	"	5.00		102	70-130			
p,m-Xylene	10.2	0.0500	"	10.0		102	70-130			
o-Xylene	5.12	0.0250	"	5.00		102	70-130			
Total Xylenes	15.3	0.0250	"	15.0		102	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.29		"	8.00		104	50-150			

Matrix Spike (2017027-MS1)

Source: P004123-01

Prepared & Analyzed: 04/22/20 1

Benzene	5.01	0.0250	mg/kg	5.00	ND	100	54.3-133			
Toluene	5.00	0.0250	"	5.00	ND	100	61.4-130			
Ethylbenzene	4.99	0.0250	"	5.00	ND	99.8	61.4-133			
p,m-Xylene	9.97	0.0500	"	10.0	ND	99.7	63.3-131			
o-Xylene	5.00	0.0250	"	5.00	ND	100	63.3-131			
Total Xylenes	15.0	0.0250	"	15.0	ND	99.8	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.46		"	8.00		106	50-150			

Matrix Spike Dup (2017027-MSD1)

Source: P004123-01

Prepared & Analyzed: 04/22/20 1

Benzene	4.99	0.0250	mg/kg	5.00	ND	99.9	54.3-133	0.338	20	
Toluene	4.96	0.0250	"	5.00	ND	99.3	61.4-130	0.730	20	
Ethylbenzene	4.95	0.0250	"	5.00	ND	99.1	61.4-133	0.692	20	
p,m-Xylene	9.90	0.0500	"	10.0	ND	99.0	63.3-131	0.760	20	
o-Xylene	4.97	0.0250	"	5.00	ND	99.5	63.3-131	0.565	20	
Total Xylenes	14.9	0.0250	"	15.0	ND	99.1	0-200	0.695	200	
Surrogate: 4-Bromochlorobenzene-PID	8.36		"	8.00		104	50-150			

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WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-1H	Reported: 04/27/20 10:54
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2017037 - DRO Extraction EPA 3570

Blank (2017037-BLK1)

Prepared: 04/23/20 0 Analyzed: 04/23/20 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	49.2		"	50.0		98.3	50-200			

LCS (2017037-BS1)

Prepared: 04/23/20 0 Analyzed: 04/23/20 1

Diesel Range Organics (C10-C28)	423	25.0	mg/kg	500		84.6	38-132			
Surrogate: n-Nonane	48.3		"	50.0		96.7	50-200			

Matrix Spike (2017037-MS1)

Source: P004123-01

Prepared: 04/23/20 0 Analyzed: 04/23/20 1

Diesel Range Organics (C10-C28)	632	25.0	mg/kg	500	154	95.5	38-132			
Surrogate: n-Nonane	48.9		"	50.0		97.7	50-200			

Matrix Spike Dup (2017037-MSD1)

Source: P004123-01

Prepared: 04/23/20 0 Analyzed: 04/23/20 1

Diesel Range Organics (C10-C28)	703	25.0	mg/kg	500	154	110	38-132	10.7	20	
Surrogate: n-Nonane	48.4		"	50.0		96.9	50-200			

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WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: East Pecos Federal 22-1H
Project Number: 04108-0639
Project Manager: Joseph Hernandez

Reported:
04/27/20 10:54

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2017027 - Purge and Trap EPA 5030A

Blank (2017027-BLK1)

Prepared & Analyzed: 04/22/20 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		"	8.00		92.5	50-150			

LCS (2017027-BS2)

Prepared & Analyzed: 04/22/20 1

Gasoline Range Organics (C6-C10)	46.1	20.0	mg/kg	50.0		92.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		"	8.00		94.1	50-150			

Matrix Spike (2017027-MS2)

Source: P004123-01

Prepared: 04/22/20 1 Analyzed: 04/22/20 2

Gasoline Range Organics (C6-C10)	46.8	20.0	mg/kg	50.0	ND	93.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		"	8.00		95.7	50-150			

Matrix Spike Dup (2017027-MSD2)

Source: P004123-01

Prepared: 04/22/20 1 Analyzed: 04/22/20 2

Gasoline Range Organics (C6-C10)	47.0	20.0	mg/kg	50.0	ND	94.0	70-130	0.450	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		"	8.00		90.8	50-150			

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WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: East Pecos Federal 22-1H
Project Number: 04108-0639
Project Manager: Joseph Hernandez

Reported:
04/27/20 10:54

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2017031 - Anion Extraction EPA 300.0/9056A

Blank (2017031-BLK1)

Prepared: 04/22/20 1 Analyzed: 04/23/20 0

Chloride	ND	20.0	mg/kg
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LCS (2017031-BS1)

Prepared: 04/22/20 1 Analyzed: 04/23/20 0

Chloride	236	20.0	mg/kg	250	94.4	90-110
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Matrix Spike (2017031-MS1)

Source: P004123-01

Prepared: 04/22/20 1 Analyzed: 04/23/20 0

Chloride	5830	100	mg/kg	250	6070	NR	80-120	M2
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Matrix Spike Dup (2017031-MSD1)

Source: P004123-01

Prepared: 04/22/20 1 Analyzed: 04/23/20 0

Chloride	6230	100	mg/kg	250	6070	64.7	80-120	6.56	20	M2
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QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: East Pecos Federal 22-1H
Project Number: 04108-0639
Project Manager: Joseph Hernandez

Reported:
04/27/20 10:54

Notes and Definitions

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Client: LT Environmental, Inc. Project: East Pecos Federal 22-1H Project Manager: Joseph Hernandez Address: 3300 North A Street City, State, Zip: Midland, TX 79705 Phone: (432) 894 - 5641 Email: jhernandez@ltenv.com, abyers@ltenv.com Report due by: 4/27/20				Bill To Attention: Same as Client Information Address: City, State, Zip Phone: Email:		Lab Use Only Lab WO# <u>P004123</u> Job Number <u>04108-0039</u> Analysis and Method				TAT 1D 3D <u>5TD</u>		EPA Program RCRA CWA SDWA					
						State NM CO UT AZ X TX OK											
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	BGDOC - TX	Remarks			
9:05	4/20/20	S	1	PH01 @ 0.5 ft	1	X	X	X		X		X					
9:15	4/20/20	S	1	PH01A @ 2 ft	2	X	X	X		X		X					
10:05	4/20/20	S	1	PH02 @ 0.5 ft	3	X	X	X		X		X					
10:10	4/20/20	S	1	PH02A @ 2 ft	4	X	X	X		X		X					
10:30	4/20/20	S	1	PH03 @ 0.5 ft	5	X	X	X		X		X					
10:35	4/20/20	S	1	PH03A @ 2 ft	6	X	X	X		X		X					
11:15	4/20/20	S	1	PH04 @ 0.5 ft	7	X	X	X		X		X					
11:20	4/20/20	S	1	PH04A @ 2.5 ft	8	X	X	X		X		X					
12:35	4/20/20	S	1	PH05 @ 0.5 ft	9	X	X	X		X		X					
12:40	4/20/20	S	1	PH05A @ 2 ft	10	X	X	X		X		X					
Additional Instructions:																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Anna Byers</u>											Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.						
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only Received on ice: <u>Y</u> N T1 T2 T3 AVG Temp °C <u>4</u>									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____											Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA						
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	

Released to Imaging: 4/27/2021 2:38:10 PM

Received by OCD: 1/22/2021 12:00:08 AM

Client: LT Environmental, Inc. Project: East Pecos Federal 22-1H Project Manager: Joseph Hernandez Address: 3300 North A Street City, State, Zip: Midland, TX 79705 Phone: (432) 894 - 5641 Email: jhernandez@ltenv.com, abyers@ltenv.com Report due by: 4/27/20				Bill To Attention: Same as Client Information Address: City, State, Zip: Phone: Email:		Lab Use Only Lab WO# P004123 Job Number 04108-D639		TAT 1D 3D		EPA Program RCRA CWA SDWA																																											
							Analysis and Method						State																																								
													NM CO UT AZ																																								
													TX OK																																								
													Remarks																																								
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	BGDOC - TX																																								
13:02	4/20/20	S	1	PH06 @ 0.5 ft	11	X	X	X			X	X																																									
13:08	4/20/20	S	1	PH06A @ 2 ft	12	X	X	X			X	X																																									
14:00	4/20/20	S	1	PH07 @ 0.5 ft	13	X	X	X			X	X																																									
14:05	4/20/20	S	1	PH07A @ 2.5 ft	14	X	X	X			X	X																																									
13:25	4/20/20	S	1	PH08 @ 0.5 ft	15	X	X	X			X	X																																									
13:30	4/20/20	S	1	PH08A @ 2.5 ft	16	X	X	X			X	X																																									
<div>Additional Instructions:</div> <p>I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Anna Byers</p> <table border="1"><tr><td>Relinquished by: (Signature)</td><td>Date</td><td>Time</td><td>Received by: (Signature)</td><td>Date</td><td>Time</td></tr><tr><td><i>Anna Byers</i></td><td>4/21/20</td><td>1135</td><td><i>[Signature]</i></td><td>4-21-2020</td><td>1135</td></tr><tr><td>Relinquished by: (Signature)</td><td>Date</td><td>Time</td><td>Received by: (Signature)</td><td>Date</td><td>Time</td></tr><tr><td><i>[Signature]</i></td><td>4-21-2020</td><td>1610</td><td><i>Michael Richards</i></td><td>4/22/20</td><td>9:45 AM</td></tr><tr><td>Relinquished by: (Signature)</td><td>Date</td><td>Time</td><td>Received by: (Signature)</td><td>Date</td><td>Time</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> <p>Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____</p> <p>Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA</p> <p>Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.</p>																		Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	<i>Anna Byers</i>	4/21/20	1135	<i>[Signature]</i>	4-21-2020	1135	Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	<i>[Signature]</i>	4-21-2020	1610	<i>Michael Richards</i>	4/22/20	9:45 AM	Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																																																
<i>Anna Byers</i>	4/21/20	1135	<i>[Signature]</i>	4-21-2020	1135																																																
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<i>[Signature]</i>	4-21-2020	1610	<i>Michael Richards</i>	4/22/20	9:45 AM																																																
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																																																

Page 136 of 139

Project Information

Chain of Custody

WPX **RL** **4/22/20**

Client: LT Environmental, Inc.
 Project: East Pecos Federal 22-1H
 Project Manager: Joseph Hernandez
 Address: 3300 North A Street
 City, State, Zip: Midland, TX 79705
 Phone: (432) 894 - 5641
 Email: jhernandez@ltenv.com, abyers@ltenv.com
 Report due by: 4/27/20

Bill To
 Attention: Same as Client Information
 Address: _____
 City, State, Zip: _____
 Phone: _____
 Email: _____

Lab Use Only
 Lab WO# P004123 Job Number 04108-0039
 Analysis and Method

TAT
 1D 5TD 3D

EPA Program
 RCRA CWA SDWA

State
 NM CO UT AZ
 X
 TX OK

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC - NM	BDOC - TX	Remarks
9:05	4/20/20	S	1	PH01 @ 0.5 ft	1	X	X	X		X		X		
9:15	4/20/20	S	1	PH01A @ 2 ft	2	X	X	X		X		X		
10:05	4/20/20	S	1	PH02 @ 0.5 ft	3	X	X	X		X		X		
10:10	4/20/20	S	1	PH02A @ 2 ft	4	X	X	X		X		X		
10:30	4/20/20	S	1	PH03 @ 0.5 ft	5	X	X	X		X		X		
10:35	4/20/20	S	1	PH03A @ 2 ft	6	X	X	X		X		X		
11:15	4/20/20	S	1	PH04 @ 0.5 ft	7	X	X	X		X		X		
11:20	4/20/20	S	1	PH04A @ 2.5 ft	8	X	X	X		X		X		
12:35	4/20/20	S	1	PH05 @ 0.5 ft	9	X	X	X		X		X		
12:40	4/20/20	S	1	PH05A @ 2 ft	10	X	X	X		X		X		

Additional Instructions: send report to Lynda + Jim

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Anna Byers

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<u>Anna Byers</u>	<u>4/21/20</u>	<u>1135</u>	<u>Jim S</u>	<u>4-21-2020</u>	<u>1135</u>
<u>Jim S</u>	<u>4-21-2020</u>	<u>1610</u>	<u>Alfred Michaels</u>	<u>4/22/20</u>	<u>9:45 AM</u>

Lab Use Only
 Received on Ice: Y N
 T1 T2 T3
 AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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WPX

Client: ~~LT Environmental, Inc.~~
 Project: East Pecos Federal 22-1H
 Project Manager: Joseph Hernandez
 Address: 3300 North A Street
 City, State, Zip: Midland, TX 79705
 Phone: (432) 894 - 5641
 Email: jhernandez@ltenv.com, abyers@ltenv.com
 Report due by: 4/27/20

Bill To

Attention: Same as Client Information
 Address:
 City, State, Zip
 Phone:
 Email:

Lab Use Only

Lab WO# P004123
 Job Number 04108-D639

TAT

1D 3D

EPA Program

RCRA CWA SDWA

Analysis and Method

State

NM CO UT AZ
 X
 TX OK

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC - NM	BDOC - TX	Remarks
13:02	4/20/20	S	1	PH06 @ 0.5 ft	11	X	X	X			X	X		
13:08	4/20/20	S	1	PH06A @ 2 ft	12	X	X	X			X	X		
14:00	4/20/20	S	1	PH07 @ 0.5 ft	13	X	X	X			X	X		
14:05	4/20/20	S	1	PH07A @ 2.5 ft	14	X	X	X			X	X		
13:25	4/20/20	S	1	PH08 @ 0.5 ft	15	X	X	X			X	X		
13:30	4/20/20	S	1	PH08A @ 2.5 ft	16	X	X	X			X	X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Anna Byers

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Relinquished by: (Signature) Anna Byers	Date 4/21/20	Time 1135	Received by: (Signature) [Signature]	Date 4-21-2020	Time 1135	Lab Use Only Received on Ice: (Y) N
Relinquished by: (Signature) [Signature]	Date 4-21-2020	Time 1610	Received by: (Signature) [Signature]	Date 4/22/20	Time 9:45 AM	T1 T2 T3
Relinquished by: (Signature) [Signature]	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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5796 US Highway 64, Farmington, NM 87401
 24 Hour Emergency Response Phone (800) 362-1879

Ph (505) 632-1881 Fx (505) 632-1865

envirotech-inc.com
 labadmin@envirotech-inc.com

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

Action 15318

CONDITIONS OF APPROVAL

Operator:				OGRID:	Action Number:	Action Type:
	WPX ENERGY PERMIAN, LLC	3500 One Williams Center	Tulsa, OK74172	246289	15318	C-141

OCD Reviewer	Condition
chensley	When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less.