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	NRM2017643736
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) NRM2017643736			
Contact mailing address: 5315 Buena Vista Drive, Carlsbad, NM 88220				

Location of Release Source

Latitude 32.049734

Longitude -103.9102662 (NAD 83 in decimal degrees to 5 decimal places)

Site Name: RDX 17 Federal #36H	Site Type: Production Facility
Date Release Discovered: 06/16/2020	API# (if applicable): 30-015-43636

Unit Letter	Section	Township	Range	County	
D	17	26S	30E	Eddy	

Surface Owner: State X 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)				
Crude Oil	Volume Released (bbls):	Volume Recovered (bbls):		
X Produced Water	Volume Released (bbls): 22	Volume Recovered (bbls): 22		
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No		
Condensate	Volume Released (bbls)	Volume Recovered (bbls)		
🗌 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)		
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)		

Cause of Release:

Pinhole leak developed on water line causing 22bbl of produced water to be released into the lined secondary containment. All fluids were recovered with a vacuum truck.

Page	2

Oil Conservation Division

Incident ID	NRM2017643736
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Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
🗌 Yes 🕱 No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

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

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

 \mathbf{X} The impacted area has been secured to protect human health and the environment.

X Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

X All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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: Lynda Laumbach	Title: Environmental Specialist
Signature:	Date: <u>06/25/2020</u>
email:Lynda.Laumbach@wpxenergy.com	Telephone: (575)725-1647
OCD Only	

Received by OCD: 8/18/2023 7:32:08 AM Form C-141 State of New Mexico

Oil Conservation Division

	Page 3 of 369
Incident ID	NRM2017643736
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

Page 3

- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD: 8/18/2	023 7:32:08 AM State of New Mexico				Page 4 of 3
				Incident ID	NRM2017643736
Page 4 Oil Conservation	Oil Conservation Division			District RP	
				Facility ID	
				Application ID	
regulations all operators ar public health or the environ failed to adequately investi	,	fications OCD does at to grou responsil Title: Date: _	and perform co not relieve the indwater, surfa bility for compl	prrective actions for rele e operator of liability sho ce water, human health iance with any other feo tal Professional	ases which may endanger ould their operations have or the environment. In
OCD Only Received by: <u>Shelly We</u>	ells		Date: <u>8/18/2</u>	023	

Page 6

Oil Conservation Division

Incident ID	NRM2017643736
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Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Jim Raley Title: Environmental Professional Signature:_____ Date: 8/18/2023 email: Jim.Raley@dvn.com Telephone: 575-689-7597 **OCD Only** Received by: <u>Shelly Wells</u> Date: <u>8/18/2023</u> Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: <u>Ashley Martwell</u> Date: 8/22/2023 Printed Name: Ashley Maxwell True Fourier Title: Environmental Specialist



CLOSURE REQUEST REPORT

RDX 17-25 / RDX 17 Federal #36H Eddy County, New Mexico Incident Numbers nAB1712952339 NRM 2017643736

Prepared For: WPX Energy Permian, LLC 5315 Buena Vista Dr. Carlsbad, NM 88220

Carlsbad • Midland • San Antonio • Lubbock • Hobbs • Lafayette

SYNOPSIS

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy Permian, LLC (WPX), presents the following Closure Request Report (CRR) documenting excavation activities and subsequent soil sampling activities in accordance with an approved Remediation Work Plan (RWP), for two overlapping inadvertent releases of produced water at the RDX 17-25 / RDX 17 Federal #36H (Site) (**Figure 1** in **Appendix A**). Based on completed remedial actions and laboratory analytical results from recent confirmation soil sampling activities, WPX is requesting No Further Action (NFA) at the Site.

SITE LOCATION AND RELEASE BACKGROUND

The Site is located in Unit D, Section 17, Township 26 South, Range 30 East, in Eddy County, New Mexico (32.049734°, -103.9102662°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

As documented in the RWP, a third-party environmental consultant conducted site assessment and delineation activities on August 27, 2020, and October 29, 2020, to characterize the following inadvertent subject releases:

nAB1712952339

On May 2, 2017, failure of a corroded flowline resulted in the release of approximately 11 barrels (bbls) of produced water into a lined containment. A breach in the lined containment allowed approximately 5 bbls to escape the containment, flow into the pasture, and intersect an adjacent access road and pipeline Right-of-Way (ROW). A vacuum truck was dispatched to the Site and recovered approximately 6 bbls of free-standing fluids. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on May 4, 2017, and was subsequently assigned Incident Number nAB1712952339. **Figure 2** in **Appendix A** depicts the observed release footprint, hereafter referred to as the Area of Concern #1 (AOC #1).

NRM2017643736

On June 16, 2020, a pinhole developed on a produced water line causing the release of approximately 22 bbls of produced water into a lined containment. A vacuum truck was dispatched to the Site and recovered all 22 bbls of produced water. WPX reported the release to the NMOCD on a Form C-141 on June 25, 2020, and was subsequently assigned Incident Number NRM2017643736. A crude oil released volume was reported on the Initial Form C-141, however, the checkbox denotation was not completed under the section "Nature and Volume of Release. The correction is provided on the Final Form C-141. **Figure 2** in **Appendix A** depicts the observed release footprint, hereafter referred to as the Area of Concern #2 (AOC #2).

Following site assessment and delineation soil sampling activities at the Site, an RWP was prepared, proposing corrective actions to address identified residual soil impacts exceeding the applicable Site Closure Criteria and completing lateral delineation around the lined containment to the north, east, and south. The RWP was received by the NMOCD on June 2, 2021, and approved separately for Incident Numbers NRM2017643736 and Incident Number nAB1712952339 with the following conditions:

- "The Workplan/Remediation Plan is approved with the following conditions: Please make sure the edges/sidewalls and floor closure samples are delineated/excavated to meet closure criteria standards for proven depth to water determination. Please make sure all groundwater data is included in closure report summary. If on-site lined treatment cell is conducted, a closure report must be loaded to the payment portal 90 days after the remediation plan has been approved. A five-point composite sample will need to be collected for every 50 cubic yards of treated soil. If

contaminated soil can't be remediated to closure criteria levels in OCD time guidelines, the contaminated soil will need to be excavated and disposed of at an OCD approved facility." [Conditions for NRM2017643736 on September 9, 2021]

- "Work plan approved. Variance approved for sampling sidewalls and excavation base every 500 square feet. Submit a closure report by 6/30/2023." [Condition for nAB1712952339 on March 27, 2023]

Note: A extension request for a new deadline of September 28, 2023, was sent to NMOCD and approved on June 14, 2023, to allow additional time to implement additional safety measures to excavate around subsurface utilities within the proposed work area.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

As previously described in the approved RWP, the Site was characterized according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC) considering depth to groundwater and the proximity to:

- Any continuously flowing watercourse or any other significant watercourse;
- Any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- An occupied permanent residence, school, hospital, institution or church;
- A spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- Any freshwater well or spring;
- Incorporated municipal boundaries or a defined municipal fresh water well field covered under a municipal ordinance;
- A wetland;
- A subsurface mine;
- An unstable area (i.e. high karst potential); and
- A 100-year floodplain.

Based on the results from the desktop review and estimated regional depth to groundwater at the Site from the approved RWP, the following Closure Criteria was applied:

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria [†]
Chloride	Environmental Protection Agency (EPA) 300.0	20,000 milligram per kilogram (mg/kg)
TPH (Total Petroleum Hydrocarbon)	EPA 8015 M/D	2,500 mg/kg
Gasoline Range Organics (GRO) + Diesel Range Organics (DRO)	EPA 8015 M/D	1,000 mg/kg
Benzene	EPA 8021B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B	50 mg/kg

[†]The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

The results of the approved Site characterization are reported on the Final Form C-141. Referenced well records are provided as **Appendix B**. Receptor details and sources used for the site characterization are included in **Figure 1** in **Appendix A**.

EXCAVATION AND DELINEATION SOIL SAMPLING ACTIVITIES

nAB1712952339

From mid-June through July 13, 2023, Etech oversaw excavation activities via mechanical equipment to address residual impacts within AOC #1. Excavation activities were driven by field screening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach[®] chloride QuanTab[®] test strips.

Following the removal of impacted soil, Etech collected 5-point composite soil samples at the approved sampling frequency of 500 square feet from the excavation sidewalls and floors. The 5-point composite soil samples were comprised of five equivalent aliquots homogenized in a 1-gallon, resealable plastic bag. The samples were then placed into lab provided pre-cleaned glass jars, packaged with minimal void space, labeled, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Envirotech, Inc. in Farmington, New Mexico, for analysis of COCs. The locations of confirmation excavation soil samples are shown in **Figure 3** in **Appendix A**.

NRM2017643736

On July 5 and July 13, 2023, Etech conducted delineation activities concurrently with excavation activities to assess the absence or presence of residual impacts above the Site Closure Criteria surrounding the lined containment, which includes both AOC #1 and AOC #2. Delineation activities were driven by field screening for VOCs and chloride as described above. Five delineation boreholes (BH01 through BH05) were advanced with a hand auger to the north, east, and south of the lined containment as proposed in the approved RWP. A total of two samples were collected from each delineation soil sample location, representing the highest observed field screening concentrations and the greatest depth. Field screening results and soil descriptions are included on lithologic soil sampling logs shown in **Appendix C**. The locations of the delineation soil samples are shown in **Figure 4** in **Appendix A**. The soil samples were handled and analyzed as previously described.

Upon completion of remediation activities, impacted soil was removed from the Site and transported to a licensed and approved New Mexico landfill under WPX approved manifests. Upon receipt of the final confirmation excavation soil samples results, the excavation was backfilled with clean, locally sourced soil and the Site was restored to "as close to its original state" as possible. Photographic documentation of all Site activities is included in **Appendix D**.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all final confirmation excavation soil samples indicated all analyzed COCs were below the applicable Site Closure Criteria. Laboratory analytical results for all delineation soil samples indicated all analyzed COCs were below the applicable Site Closure Criteria. Specifically, analytical results for soil samples collected from BH01, BH02, BH04, and BH05 locations provide sufficient supplemental horizontal delineation for AOC #1 and AOC #2 surrounding the lined containment. Horizontal delineation to the west of the lined containment was supported via confirmation sampling by SW01, SW03, SW04, SW05, FS01 and FS02. Laboratory analytical results are summarized in **Table 1** included in **Appendix E**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix F**.

CLOSURE REQUEST

Based on the results from laboratory analytical results, WPX believes residual impacts associated with the two overlapping, inadvertent releases have been delineated, excavated, and removed from the Site. Concentrations of COCs for all analyzed soil samples were below the applicable Site Closure Criteria. Furthermore, the horizontal periphery of impacts has been defined for AOC#1 and AOC#2 via delineation

and/or confirmation sampling. WPX believes the completed remedial actions have mitigated impacts at the Site and fulfilled requirements set forth in NMAC 19.15.29.13 guidelines in order to be protective of human health, the environment and ground water. As such, WPX respectfully requests NFA of Incident Numbers nAB1712952339 and NRM2017643736.

If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (281) 702-2329 or <u>joseph@etechenv.com</u> or Gilbert Moreno at (832) 541-7719 or <u>gilbert@etechenv.com</u>. **Appendix G** provides correspondence email notification receipts associated with the subject release. Previous remediation activities and soil sample analytical results for the subject release can be referenced in the approved RWP in **Appendix H**.

Sincerely, Etech Environmental and Safety Solutions, Inc.

Gilbert Moreno Project Geologist

signed Hod

Joseph S. Hernandez Senior Managing Geologist

cc: Jim Raley, WPX New Mexico Oil Conservation Division Bureau of Land Management

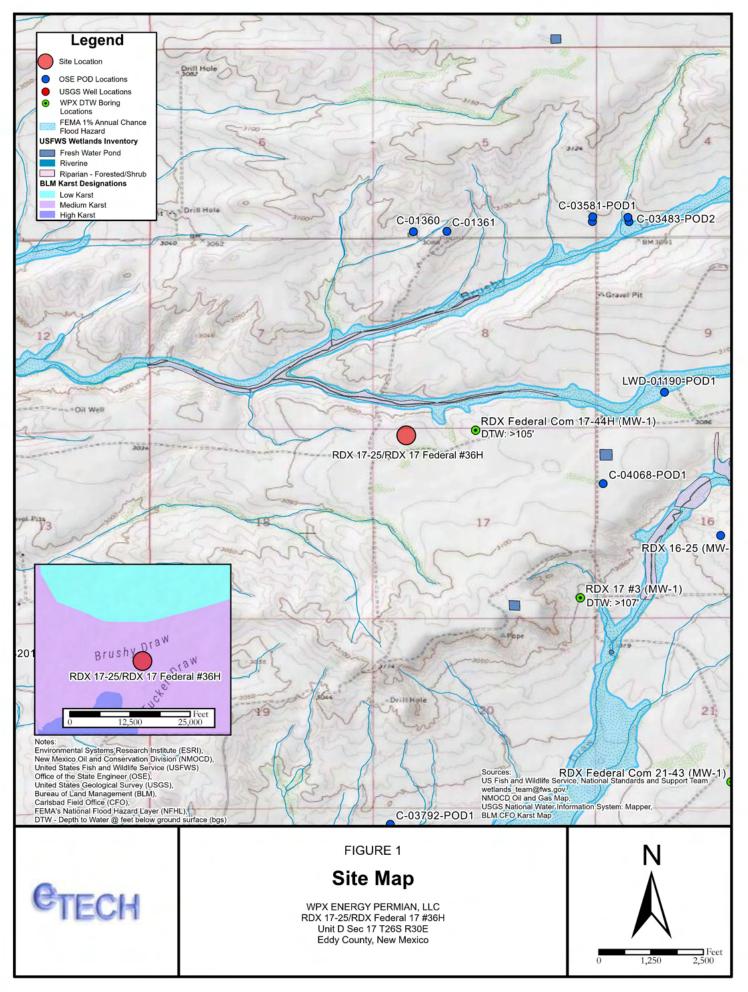
Appendices:

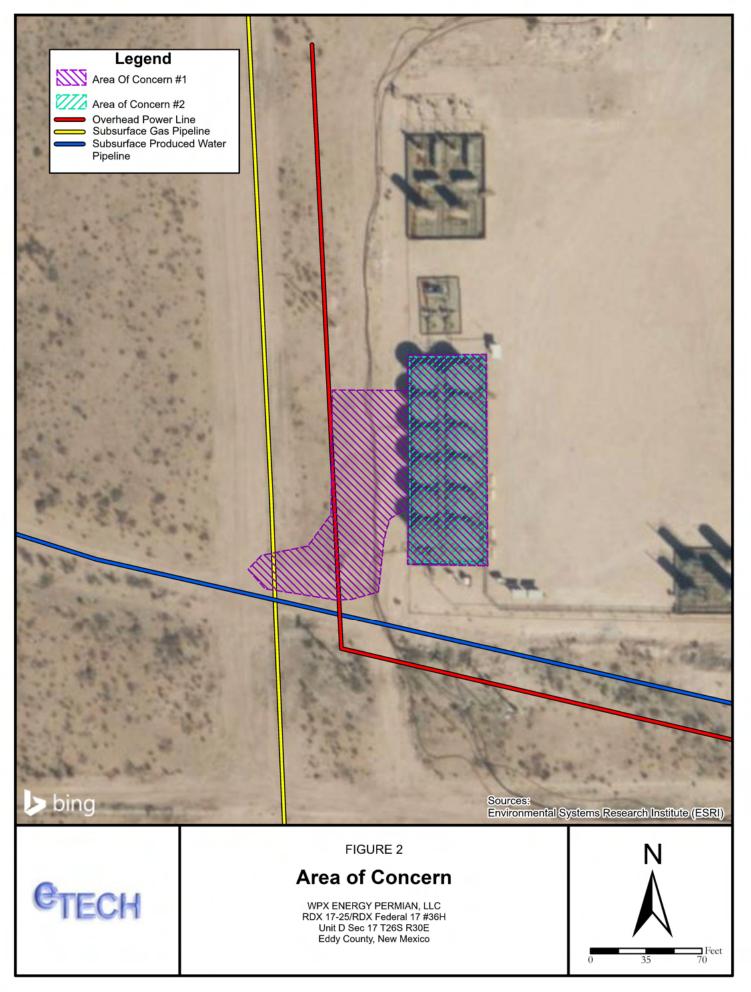
- Appendix A: Figure 1: Site Map
 - Figure 2: Areas of Concern
 - Figure 3: Excavation Soil Sample Locations
 - Figure 4: Delineation Soil Sample Locations
- Appendix B: Referenced Well Records
- Appendix C: Lithologic Soil Sampling Logs
- Appendix D: Photographic Log
- Appendix E: Tables
- Appendix F: Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix G: NMOCD Notifications
- Appendix H: Approved Remediation Work Plan

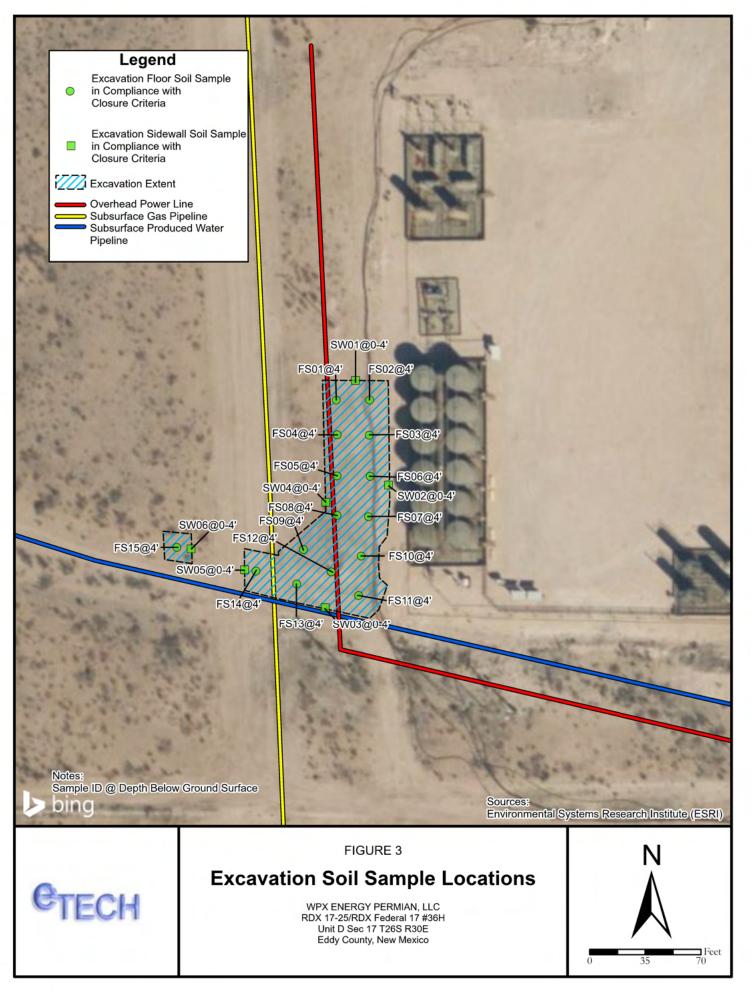
APPENDIX A

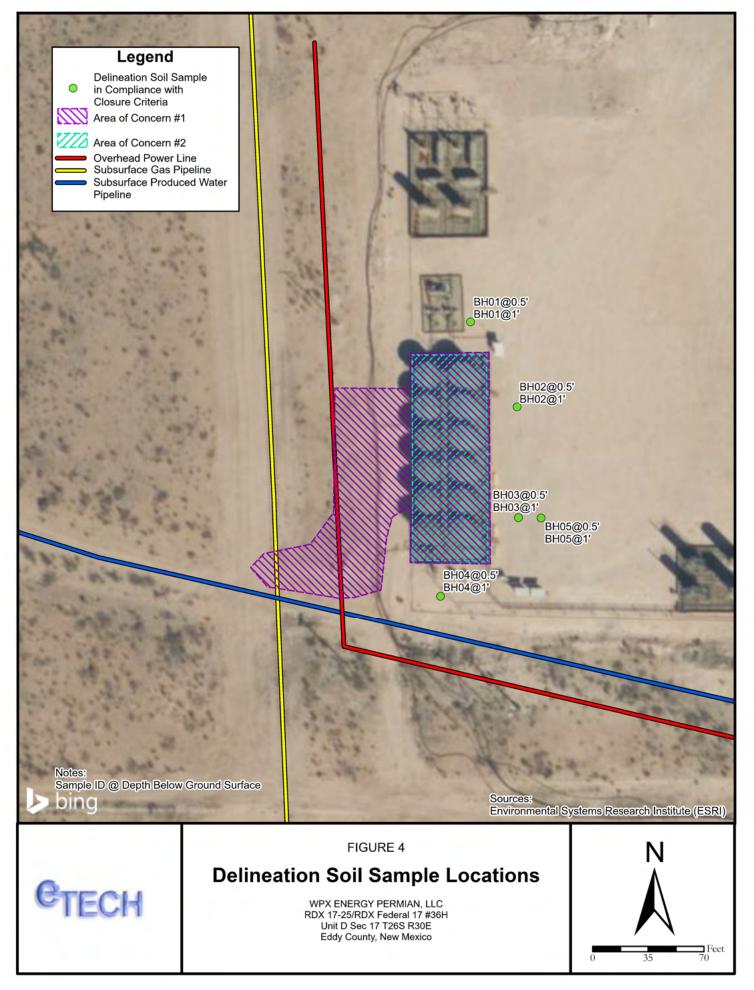
Figures











APPENDIX B

Referenced Well Record



		HR	1				BORIN	NG LOG/I	MONITORING WI	ELL COMPLETION	DIAGRAM	
		C O	MPL		C E		Boring/Well		W-1	Location: RDX Federal Co	om 17-44H	
	TM	ŠÖ	LUI		NS		Date:			Client:		
Drilling Me	ethod:		Sampling 1	Method:			Logged By:	12/8/	/2020	WPX Energy Drilled By:		
A	ir Rotar	у		No	one			J. Lin	n, PG	Talon L	PE	
Gravel Pack	k Type: 0/20 San	hd	Gravel Pac	k Depth Inte 3 B	erval: ags		Seal Type: No	one	Seal Depth Interval: None	Latitude: 32.0496	56	
Casing Typ	e:	Diameter:		Depth Inter				Depth (ft. BGS):	Longitude:		
PVC Screen Typ		2-inch Slot:		0-105 ft Diameter:		Interval:	Wall Tatal D	epth (ft. BGS):		-103.904 Depth to Water (ft. BTOC):		
PVC		0.010-ii	nch	2-inch		110 ft	well Total D	21 (II. BGS):		> 110	12/16/2020	
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	USCS	Sample ID	Litholog	y/Remarks	Well Completion	
$ \begin{array}{r} 0 \\ 5 \\ 10 \\ 15 \\ 20 \\ 25 \\ 30 \\ 35 \\ 40 \\ \end{array} $	NM	L	D	Ν	N	NM	CE	NS	Buff to pale pink colored caliche			
45 50 55 60	NM	L	D	N	N	NM	SW	NS	Pinky orange well graded sand with minor silt			
65 70 75	NM	L	D	Ν	N	NM	SP	NS	Pinky pale brown orange poorly graded fine sand with minor silt			
80 85 90	NM	L	D	Ν	N	NM	SW-SM SW-SC	NS	Pinky brown orange well-graded sand with silt and clay			
95 100 105	NM	L	D	N	N	NM	SP	NS	Pinky pale brown orange poorly graded fine sand with minor silt - TD: 110' bgs			

APPENDIX C

Lithologic Soil Sampling Logs



											Sample Name: BH01	Date: 07/05/2023	
		÷ 1									Site Name: RDX 17-25/RDX Fe		
										Incident Numbers: nAB1712952339/NRM2017643736			
					5	l					Job Number: 18151/18152		
	LITHO		<u>C / 9</u>	SOIL	SAM	PI I	NG	10	G		Logged By: EK Method: Hand Auger		
	ordinate								<u> </u>		Hole Diameter: 4"	Total Depth: 1'	
							СНО	Chlori	de Tes		trips and PID for chloride and va	-	
											ction factors included.		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample	(feet bgs)	Depth	(f	· د	k Symbol		criptions/Notes	
Dry	192	0	No	BH01	0.5	5	_	0	CCH	ΗE	(0-1') CALICHE, dry, tan, wel coarse grain, no stain,		
Dry	192	0	No	BH01	1	_	_	1					
									 Total		pth: 1 Foot bgs.		
	$\overline{}$												
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ereau	Sample Name: BH02 Date: 07/05/2023 Site Name: DDX 17 25/DDX Federal #26H		
	Site Name: RDX 17-25/RDX Federal #36H		
	Incident Numbers: nAB1712952339/NRM2017643736 Job Number: 18151/18152		
LITHOLOGIC / SOIL SAMPLING LOG			
Site Coordinates: 32.0175972, -103.9520569	Logged By: EKMethod: Hand AugerHole Diameter: 4"Total Depth: 1'		
Comments: Field screening conducted with HACH Chloride Test §	· · ·		
performed with 1:4 dilution factor of soil to distilled water. No corre			
Moisture Content Chloride (ppm) Vapor (ppm) Staining Sample ID Sample ID Sample ID Cepth (feet bgs) (feet bgs) USCS/Roc k Symbol	Lithologic Descriptions/Notes		
Dry 180 0.5 No BH02 0.5 0 CCHE	(0-1') CALICHE, dry, tan, well graded with silt, very fine to coarse grain, no stain, no odor.		
Dry 132 0.1 No BH02 1 1			
Total De	pth: 1 Foot bgs.		

										D 1 07/05/0000
									Sample Name: BH03	Date: 07/05/2023
VIECH								Site Name: RDX 17-25/RDX Federal #36H Incident Numbers: nAB1712952339/NRM2017643736		
							J	Job Number: 18151/18152		
LITHOLOGIC / SOIL SAMPLING LOG										
								J	Logged By: EK Hole Diameter: 4"	Method: Hand Auger
	ordinate						H Chlori	de Test 9		Total Depth: 1' apor, respectively. Chloride test
									ection factors included.	apor, respectively. Chionde test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth	(feet bgs)	Depth (feet bgs)	USCS/Roc k Symbol		criptions/Notes
Dry	292	0	No	BH03	0.5		0	CCHE	(0-1') CALICHE, dry, tan, we coarse grain, no stain,	Il graded with silt, very fine to
	292	0		DI 103	0.5	+			Coarse grain, no stain,	
Dry	192	0	No	BH03	1		1			
<u> </u>							-		pth: 1 Foot bgs.	
									pui. 11 000 bys.	
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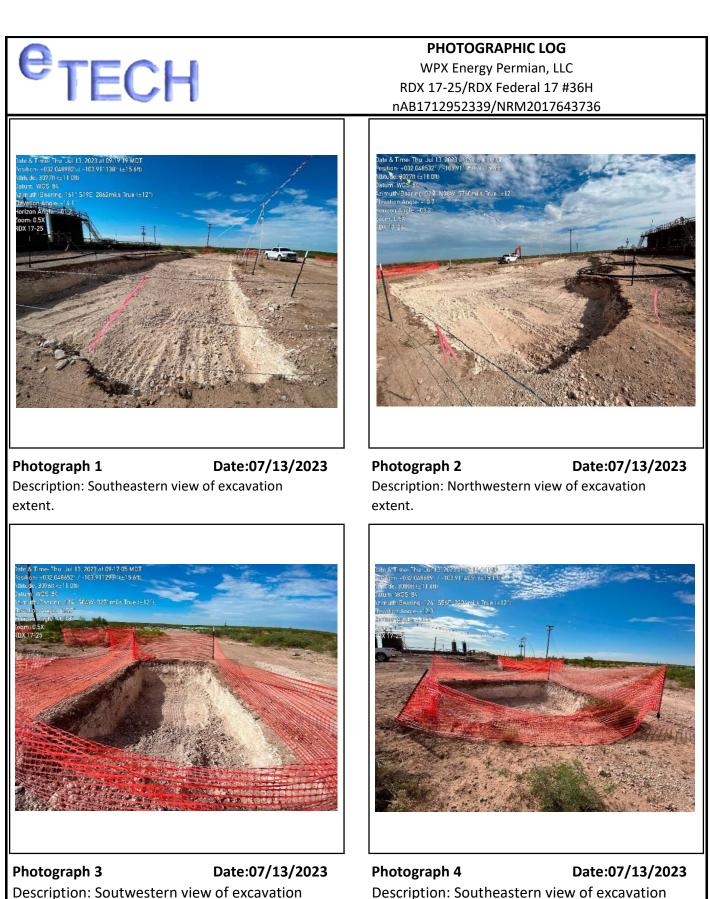
	Commis Name: DU04 Date: 07/05/0000		
ETEAL	Sample Name: BH04 Date: 07/05/2023 Site Name: RDX 17-25/RDX Federal #36H		
VIECH	Incident Numbers: nAB1712952339/NRM2017643736		
	Job Number: 18151/18152		
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK Method: Hand Auger		
Site Coordinates: 32.0175972, -103.9520569	Hole Diameter: 4" Total Depth: 1'		
	Strips and PID for chloride and vapor, respectively. Chloride test		
performed with 1:4 dilution factor of soil to distilled water. No cor			
Moisture Content Chloride (ppm) Vapor Vapor (ppm) Staining Sample ID Sample ID Sample ID Depth (feet bgs) USCS/Roc			
	E (0-1') CALICHE, dry, tan, well graded with silt, very fine to		
Dry <120 0 No BH04 0.5	coarse grain, no stain, no odor.		
Dry <120 0 No BH04 1 1			
Total D	epth: 1 Foot bgs.		

ereau		· ·	Date: 07/13/2023	
TECH	Site Name: RDX 17-25/RDX Federal #36H Incident Numbers: nAB1712952339/NRM2017643736			
	Job Number: 18151/18152	JJJ/ININIZU1704J7J0		
LITHOLOGIC / SOIL SAMPLING LO	G			
Site Coordinates: 32.0175972, -103.9520569	9			
Comments: Field screening conducted with HACH Chlor	ide Test 9		Total Depth: 1'	
performed with 1:4 dilution factor of soil to distilled water			por, respectively. Onlonde lest	
Moisture Content Chloride (ppm) Vapor (ppm) Staining Sample ID Sample ID Sample ID Cepth (feet bgs) (feet bgs)		Lithologic Desc		
	CCHE	(0-1') CALICHE, dry, tan, well		
Dry <120 0 No BH05 0.5		coarse grain, no stain, i	no odor.	
Dry <120 0 No BH05 1 1				
	Total De	epth: 1 Foot bgs.		

APPENDIX D

Photographic Log





Description: Southeastern view of excavation extent.

extent.



APPENDIX E

Tables



Released to Imaging: 8/22/2023 8:25:59 AM	e _{TEC}	СН
22/2023 8.	Sample I.D.	Sampl Date
25	NMOCD Table I Closu Release (NMAC 19.15.2	
97		
Â	FS01	07/05/20

Table 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC RDX 17-25/RDX Federal 17 #36H Eddy County, New Mexico

					• •					
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closu Release (NMAC 19.15.)		oils Impacted by a	10	50	NE	NE	NE	1,000	2,500	20,000
					Excavation Floor Soi	I Samples	•		•	
FS01	07/05/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	163
FS02	07/05/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	258
FS03	07/05/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,800
FS04	07/05/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	732
FS05	07/05/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,560
FS06	07/05/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	8,080
FS07	07/05/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,570
FS08	07/05/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,020
FS09	07/05/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,680
FS10	07/05/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	692
FS11	07/13/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,220
FS12	07/13/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,920
FS13	07/13/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,740
FS14	07/13/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	785
FS15	07/13/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	251
				ļ	Excavation Sidewall So	oil Samples				
SW01	07/052023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	133
SW02	07/05/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
SW03	07/13/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	206
SW04	07/13/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	36.9
SW05	07/13/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	214
SW06	07/13/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics ORO: Oil Range Organics TPH: Total Petroleum Hydrocarbon NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code Concentrations in **bold** exceed the NMOCD Table I Closure Criteria and/or Reclamation Standards for Soils Impacted by a Release

e_{TECH}

Table 2 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC RDX 17-25/RDX Federal 17 #36H Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closu Release (NMAC 19.15.		ils Impacted by a	10	50	NE	NE	NE	1,000	2,500	20,000
					Delineation Soil Sa	amples				
BH01	07/05/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	301
BH01	07/05/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	329
BH02	07/05/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
BH02	07/05/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
BH03	07/05/2023	0.5	<0.0250	<0.0500	<20.0	940	577	940	1,517	269
BH03	07/05/2023	1	<0.0250	<0.0500	<20.0	749	517	749	1,266	296
BH04	07/05/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	37.2
BH04	07/05/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	27.2
BH05	07/13/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
BH05	07/13/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	106

bgs: below ground surface

mg/kg: milligrams per kilogram

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes GRO: Gasoline Range Organics DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

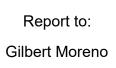
Concentrations in **bold** exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard for Soils Impacted by a Release

Received by OCD: 8/18/2023 7:32:08 AM

APPENDIX F

Laboratory Analytical Reports & Chain-of-Custody Documentation







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 17-25

Work Order: E307015

Job Number: 01058-0007

> Received: 7/10/2023

> > Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/12/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/12/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 17-25 Workorder: E307015 Date Received: 7/10/2023 8:10:00AM

Gilbert Moreno,



Page 32 of 369

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/10/2023 8:10:00AM, under the Project Name: RDX 17-25.

The analytical test results summarized in this report with the Project Name: RDX 17-25 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

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Southern New Mexico Area Lynn Jarboe Technical Representative/Client Services

Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Received by OCD: 8/18/2023 7:32:08 AM

Sample Summary

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		Sample Sum	mary				
WPX Energy - Carlsbad		Project Name:	RDX 17-25		Reported:		
5315 Buena Vista Dr		Project Number:	01058-0007		Keporteu.		
Carlsbad NM, 88220		Project Manager:	Gilbert Moreno		07/12/23 10:47		
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container		
FS01 4'	E307015-01A	Soil	07/05/23	07/10/23	Glass Jar, 2 oz.		
FS02 4'	E307015-02A	Soil	07/05/23	07/10/23	Glass Jar, 2 oz.		
FS03 4'	E307015-03A	Soil	07/05/23	07/10/23	Glass Jar, 2 oz.		
FS04 4'	E307015-04A	Soil	07/05/23	07/10/23	Glass Jar, 2 oz.		
FS05 4'	E307015-05A	Soil	07/05/23	07/10/23	Glass Jar, 2 oz.		
FS06 4'	E307015-06A	Soil	07/05/23	07/10/23	Glass Jar, 2 oz.		
FS07 4'	E307015-07A	Soil	07/05/23	07/10/23	Glass Jar, 2 oz.		
FS08 4'	E307015-08A	Soil	07/05/23	07/10/23	Glass Jar, 2 oz.		
FS09 4'	E307015-09A	Soil	07/05/23	07/10/23	Glass Jar, 2 oz.		
FS10 4'	E307015-10A	Soil	07/05/23	07/10/23	Glass Jar, 2 oz.		



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		ampic D				
WPX Energy - Carlsbad	Project Name		K 17-25			
5315 Buena Vista Dr	Project Number: 01058-0007				Reported: 7/12/2023 10:47:17AM	
Carlsbad NM, 88220	Project Manag	ger: Gilb	er: Gilbert Moreno			
		FS01 4'				
		E307015-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2328001	
Benzene	ND	0.0250	1	07/10/23	07/10/23	
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23	
oluene	ND	0.0250	1	07/10/23	07/10/23	
-Xylene	ND	0.0250	1	07/10/23	07/10/23	
o,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
Total Xylenes	ND	0.0250	1	07/10/23	07/10/23	
Surrogate: 4-Bromochlorobenzene-PID		96.7 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	g Analyst: IY		Batch: 2328001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.4 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2328005
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/23	07/11/23	
Dil Range Organics (C28-C36)	ND	50.0	1	07/10/23	07/11/23	
Surrogate: n-Nonane		98.6 %	50-200	07/10/23	07/11/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2328006
Chloride	163	100	5	07/10/23	07/10/23	

Sample Data



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	3	ample D	ata			
WPX Energy - Carlsbad	Project Name	e: RD2	K 17-25			
5315 Buena Vista Dr	Project Number: 01058-0007				Reported:	
Carlsbad NM, 88220	Project Mana	ger: Gilb	ert Moreno	7/12/2023 10:47:17AM		
		E307015-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2328001
Benzene	ND	0.0250	1	07/10/23	07/10/23	
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23	
Toluene	ND	0.0250	1	07/10/23	07/10/23	
o-Xylene	ND	0.0250	1	07/10/23	07/10/23	
p,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
Total Xylenes	ND	0.0250	1	07/10/23	07/10/23	
Surrogate: 4-Bromochlorobenzene-PID		95.4 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2328001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.5 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2328005
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/23	07/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/23	07/11/23	
Surrogate: n-Nonane		100 %	50-200	07/10/23	07/11/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	ng/kg Analyst: BA			Batch: 2328006
Chloride	258	200	10	07/10/23	07/10/23	

.

	3	ample D	ลเล			
WPX Energy - Carlsbad	Project Name	: RD2	K 17-25			
5315 Buena Vista Dr	Project Numb	oer: 0105	58-0007	Reported:		
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			7/12/2023 10:47:17AM
		FS03 4'				
		E307015-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2328001
Benzene	ND	0.0250	1	07/10/23	07/10/23	
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23	
Toluene	ND	0.0250	1	07/10/23	07/10/23	
o-Xylene	ND	0.0250	1	07/10/23	07/10/23	
p,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
Total Xylenes	ND	0.0250	1	07/10/23	07/10/23	
Surrogate: 4-Bromochlorobenzene-PID		94.8 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2328001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.2 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2328005
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/23	07/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/23	07/11/23	
Surrogate: n-Nonane		96.1 %	50-200	07/10/23	07/11/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2328006
Chloride	1800	40.0	2	07/10/23	07/10/23	

	3	ample D	ata			
WPX Energy - Carlsbad	Project Name	e: RD2	K 17-25			
5315 Buena Vista Dr	Project Numl	ber: 010	58-0007	Reported:		
Carlsbad NM, 88220	Project Mana	iger: Gilb	ert Moreno			7/12/2023 10:47:17AM
		FS04 4'				
		E307015-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	Analyst: IY		Batch: 2328001
Benzene	ND	0.0250	1	07/10/23	07/10/23	
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23	
Toluene	ND	0.0250	1	07/10/23	07/10/23	
o-Xylene	ND	0.0250	1	07/10/23	07/10/23	
p,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
Total Xylenes	ND	0.0250	1	07/10/23	07/10/23	
Surrogate: 4-Bromochlorobenzene-PID		95.7 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: IY		Batch: 2328001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.4 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2328005
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/23	07/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/23	07/11/23	
Surrogate: n-Nonane		98.9 %	50-200	07/10/23	07/11/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2328006
Chloride	732	40.0	2	07/10/23	07/10/23	



	3	ample D	ลเล			
WPX Energy - Carlsbad	Project Name	: RDZ	K 17-25			
5315 Buena Vista Dr	Project Numb	ber: 0105	58-0007	Reported:		
Carlsbad NM, 88220	Project Mana	ger: Gilb	ert Moreno			7/12/2023 10:47:17AM
		FS05 4'				
		E307015-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2328001
Benzene	ND	0.0250	1	07/10/23	07/10/23	
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23	
Toluene	ND	0.0250	1	07/10/23	07/10/23	
o-Xylene	ND	0.0250	1	07/10/23	07/10/23	
p,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
Total Xylenes	ND	0.0250	1	07/10/23	07/10/23	
Surrogate: 4-Bromochlorobenzene-PID		95.3 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2328001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.5 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	:: KM		Batch: 2328005
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/23	07/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/23	07/11/23	
Surrogate: n-Nonane		100 %	50-200	07/10/23	07/11/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: BA		Batch: 2328006
Chloride	1560	200	10	07/10/23	07/10/23	

	Da	ample D	ลเล			
WPX Energy - Carlsbad	Project Name:	RDZ	K 17-25			
5315 Buena Vista Dr	Project Number	er: 0105	58-0007	Reported:		
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			7/12/2023 10:47:17AM
		FS06 4'				
		E307015-06				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
olatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	:: IY		Batch: 2328001
enzene	ND	0.0250	1	07/10/23	07/10/23	
thylbenzene	ND	0.0250	1	07/10/23	07/10/23	
oluene	ND	0.0250	1	07/10/23	07/10/23	
-Xylene	ND	0.0250	1	07/10/23	07/10/23	
,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
otal Xylenes	ND	0.0250	1	07/10/23	07/10/23	
urrogate: 4-Bromochlorobenzene-PID		95.6 %	70-130	07/10/23	07/10/23	
onhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: IY		Batch: 2328001
asoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		86.6 %	70-130	07/10/23	07/10/23	
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	ng/kg Analyst: KM			Batch: 2328005
viesel Range Organics (C10-C28)	ND	25.0	1	07/10/23	07/11/23	
vil Range Organics (C28-C36)	ND	50.0	1	07/10/23	07/11/23	
urrogate: n-Nonane		96.8 %	50-200	07/10/23	07/11/23	
nions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: BA		Batch: 2328006
hloride	8080	200	10	07/10/23	07/10/23	



	25	ample D	ลเล			
WPX Energy - Carlsbad	Project Name:	RDZ	X 17-25			
5315 Buena Vista Dr	Project Numbe	er: 0103	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			7/12/2023 10:47:17AM
		FS07 4'				
		E307015-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	t: IY		Batch: 2328001
Benzene	ND	0.0250	1	07/10/23	07/10/23	
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23	
Toluene	ND	0.0250	1	07/10/23	07/10/23	
p-Xylene	ND	0.0250	1	07/10/23	07/10/23	
o,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
Total Xylenes	ND	0.0250	1	07/10/23	07/10/23	
Surrogate: 4-Bromochlorobenzene-PID		95.2 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	:: IY		Batch: 2328001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.3 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	:: KM		Batch: 2328005
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/23	07/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/23	07/11/23	
Surrogate: n-Nonane		82.5 %	50-200	07/10/23	07/11/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	t: BA		Batch: 2328006
Chloride	2570	400	20	07/10/23	07/10/23	



	S	ample D	ata			
WPX Energy - Carlsbad	Project Name:	RD2	X 17-25			
5315 Buena Vista Dr	Project Numbe	er: 0105	58-0007	Reported:		
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			7/12/2023 10:47:17AM
		FS08 4'				
		E307015-08				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2328001
Benzene	ND	0.0250	1	07/10/23	07/10/23	
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23	
Toluene	ND	0.0250	1	07/10/23	07/10/23	
-Xylene	ND	0.0250	1	07/10/23	07/10/23	
,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
Total Xylenes	ND	0.0250	1	07/10/23	07/10/23	
urrogate: 4-Bromochlorobenzene-PID		96.5 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2328001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		88.8 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys		Batch: 2328005	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/23	07/11/23	
Dil Range Organics (C28-C36)	ND	50.0	1	07/10/23	07/11/23	
urrogate: n-Nonane		98.2 %	50-200	07/10/23	07/11/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2328006
Chloride	1020	40.0	2	07/10/23	07/10/23	



	5	ample D	ala			
WPX Energy - Carlsbad	Project Name:	RD2	K 17-25			
5315 Buena Vista Dr	Project Numb	er: 0105	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			7/12/2023 10:47:17AM
		FS09 4'				
		E307015-09				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2328001
Benzene	ND	0.0250	1	07/10/23	07/10/23	
thylbenzene	ND	0.0250	1	07/10/23	07/10/23	
oluene	ND	0.0250	1	07/10/23	07/10/23	
-Xylene	ND	0.0250	1	07/10/23	07/10/23	
,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
otal Xylenes	ND	0.0250	1	07/10/23	07/10/23	
urrogate: 4-Bromochlorobenzene-PID		95.2 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2328001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		87.9 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2328005
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/23	07/11/23	
Dil Range Organics (C28-C36)	ND	50.0	1	07/10/23	07/11/23	
urrogate: n-Nonane		97.2 %	50-200	07/10/23	07/11/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2328006
Chloride	2680	40.0	2	07/10/23	07/10/23	

	D.	ample D	ala			
WPX Energy - Carlsbad	Project Name:	: RD2	K 17-25			
5315 Buena Vista Dr	Project Numb	er: 0103	58-0007		Reported:	
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			7/12/2023 10:47:17AM
		FS10 4'				
		E307015-10				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2328001
Benzene	ND	0.0250	1	07/10/23	07/10/23	
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23	
foluene	ND	0.0250	1	07/10/23	07/10/23	
p-Xylene	ND	0.0250	1	07/10/23	07/10/23	
o,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
Fotal Xylenes	ND	0.0250	1	07/10/23	07/10/23	
Surrogate: 4-Bromochlorobenzene-PID		94.8 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2328001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.7 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal		Batch: 2328005	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/23	07/11/23	
Dil Range Organics (C28-C36)	ND	50.0	1	07/10/23	07/11/23	
Surrogate: n-Nonane		97.4 %	50-200	07/10/23	07/11/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2328006
Chloride	692	20.0	1	07/10/23	07/10/23	



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	01	DX 17-25 1058-0007 ilbert Moreno					Reported: 7/12/2023 10:47:17AM
		Volatile Or	rganics l	oy EPA 802	1 B				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2328001-BLK1)							Prepared: 0	7/10/23 A	analyzed: 07/10/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.64		8.00		95.5	70-130			
LCS (2328001-BS1)							Prepared: 0	7/10/23 A	analyzed: 07/10/23
Benzene	5.06	0.0250	5.00		101	70-130			
Ethylbenzene	5.01	0.0250	5.00		100	70-130			
Toluene	5.08	0.0250	5.00		102	70-130			
o-Xylene	5.01	0.0250	5.00		100	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			
Matrix Spike (2328001-MS1)				Source: l	E307015-	01	Prepared: 0	7/10/23 A	analyzed: 07/10/23
Benzene	5.15	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.09	0.0250	5.00	ND	102	61-133			
Toluene	5.18	0.0250	5.00	ND	104	61-130			
o-Xylene	5.10	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131			
Total Xylenes	15.5	0.0250	15.0	ND	103	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.7	70-130			
Matrix Spike Dup (2328001-MSD1)				Source: l	E307015-	01	Prepared: 0	7/10/23 A	analyzed: 07/10/23
Benzene	4.95	0.0250	5.00	ND	99.0	54-133	3.95	20	
Ethylbenzene	4.89	0.0250	5.00	ND	97.9	61-133	3.92	20	
Toluene	4.97	0.0250	5.00	ND	99.3	61-130	4.15	20	
o-Xylene	4.91	0.0250	5.00	ND	98.2	63-131	3.82	20	
p,m-Xylene	9.98	0.0500	10.0	ND	99.8	63-131	3.71	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.3	63-131	3.74	20	
Surrogate: 4-Bromochlorobenzene-PID	7.78	0.0250	8.00	ND	99.3	70-130	3./4	20	



QC Summary Data

		QC D	u	aly Data	L				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	RDX 17-25 1058-0007 Gilbert Moreno					Reported: 7/12/2023 10:47:17AM
	No	nhalogenated O			5D - Gl	RO			Analyst: IY
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
					70	70	70	70	Notes
Blank (2328001-BLK1)							Prepared: 0	7/10/23	Analyzed: 07/10/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.10		8.00		88.8	70-130			
LCS (2328001-BS2)							Prepared: 0	7/10/23	Analyzed: 07/10/23
Gasoline Range Organics (C6-C10)	40.9	20.0	50.0		81.8	70-130			-
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.15		8.00		89.4	70-130			
Matrix Spike (2328001-MS2)				Source: I	E 307015- (01	Prepared: 0	7/10/23	Analyzed: 07/10/23
Gasoline Range Organics (C6-C10)	42.5	20.0	50.0	ND	85.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.97		8.00		87.1	70-130			
Matrix Spike Dup (2328001-MSD2)				Source: I	E307015-0	01	Prepared: 0	7/10/23	Analyzed: 07/10/23
Gasoline Range Organics (C6-C10)	41.4	20.0	50.0	ND	82.9	70-130	2.52	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		8.00		88.1	70-130			



QC Summary Data

		VC B	u I I I I I I	ary Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	(RDX 17-25 01058-0007 Gilbert Moreno					Reported: 7/12/2023 10:47:17AM
	Nonh	alogenated Orga	anics by	y EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2328005-BLK1)							Prepared: 0	7/10/23 A	Analyzed: 07/10/23
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	51.1		50.0		102	50-200			
LCS (2328005-BS1)							Prepared: 0	7/10/23 A	Analyzed: 07/10/23
Diesel Range Organics (C10-C28)	256	25.0	250		102	38-132			
Surrogate: n-Nonane	48.3		50.0		96.6	50-200			
Matrix Spike (2328005-MS1)				Source: E	307015-	01	Prepared: 0	7/10/23 A	Analyzed: 07/10/23
Diesel Range Organics (C10-C28)	254	25.0	250	ND	102	38-132			
Surrogate: n-Nonane	46.7		50.0		93.3	50-200			
Matrix Spike Dup (2328005-MSD1)				Source: E	307015-	01	Prepared: 0	7/10/23 A	Analyzed: 07/10/23
Diesel Range Organics (C10-C28)	259	25.0	250	ND	103	38-132	1.79	20	
Surrogate: n-Nonane	49.3		50.0		98.6	50-200			



QC Summary Data

WPX Energy - Carlsbad		Project Name:	R	DX 17-25					Reported:
5315 Buena Vista Dr		Project Number:	01	1058-0007					-
Carlsbad NM, 88220		Project Manager	G G	ilbert Moreno					7/12/2023 10:47:17AM
		Anions	by EPA 3	300.0/9056A	١				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2328006-BLK1)							Prepared: 0	7/10/23	Analyzed: 07/10/23
Chloride	ND	20.0							
LCS (2328006-BS1)							Prepared: 0	7/10/23	Analyzed: 07/10/23
Chloride	249	20.0	250		99.4	90-110			
Matrix Spike (2328006-MS1)				Source:	E307015-0)1	Prepared: 0	7/10/23	Analyzed: 07/10/23
Chloride	402	100	250	163	96.0	80-120			
Matrix Spike Dup (2328006-MSD1)				Source:	E307015-0)1	Prepared: 0	7/10/23	Analyzed: 07/10/23
Chloride	399	100	250	163	94.7	80-120	0.763	20	

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.



Definitions and Notes

_		201110101		
ſ	WPX Energy - Carlsbad	Project Name:	RDX 17-25	
I	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	07/12/23 10:47

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Released

Page	1	0

	Section of the sectio	and the second					UF 1													
	PX Energy Pe	rmian LLC	2.			Bill To	4.1	3			ab Us						TAT			rogram
	RDX 17-25					ntion: Jim Raley		Lab	WO#	1.00		Jop I	Numbe		1D 2	2D	1724-0319-54	Standard	CWA	SDWA
	lanager: Gilbe					ress: 5315 Buena Vista Dr.		EC	307	OB			58-0					5 day TAT		
	13000 W Cou					State, Zip: Carlsbad, NM, 882	220	-			A	Analy	sis and I	Netho	1				L. Had	RCRA
	e, Zip_Odessa		55			ne: 575-885-7502			by (- 1			
	one: (832) 541-7719					il: jim.raley@dvn.com			ORC										State	
mail: Devon-team@etechenv.com ollected by: Edyte Konan						21181900	1	1	RO/	21	0	0	0.00		MN		ž	NM CO	UT AZ	TX
ollected	by: Edyte Ko	nan			Incid	lent ID: nAB1712952339	Lab	Depth(ft.)	30/D	y 80	/ 826	601	le 3(
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID					TPH GRO/DRO/ORO by 8015	ВТЕХ by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC		Remarks	Page rogram SDWA RCRA TX
9:00	7/5/2023	S	1		25	FS01	1	4'							X					
9:10	7/5/2023	S	1			FS02	2	4'							х					
9:20	7/5/2023	S	1			FS03	3	4'							х					
9:30	7/5/2023	S	1			FS04	4	4'							x					
9:40	7/5/2023	S	1			FS05	5	4'							x					
9:50	7/5/2023	S	1			FS06	6	4'							х					
10:00	7/5/2023	S	1			FS07	7	4'							х					
10:10	7/5/2023	S	1			FS08	8	4'							X					
10:20	7/5/2023	S	1			FS09	9	4'							X					
10:30	7/5/2023	S ·	1	÷.		FS10	10	4'							x					
ddition	al Instruction	is:				· · · · · · · · · · · ·														
	oler), attest to the v of collection is cor	10000 ¹⁰ 10000	⁰ .			ampering with or intentionally mislabellir Sampled by: EK	ig the sample loo	ation,										eived on ice the da ss than 6 °C on sub		
(Me	d by: (Signature		Date 7 .	12	me 08:00	Received by: (Signature)	Date 7-6-	23	Time	208	2	Lab U Received on ice:				Use Only N				
Relinquished by: (Signature) Date Time Miculle Cunxeles 7-6-23		me 630	Received by: (Signature)	Date 7.7.	23	-	30	>	<u>T1</u>			<u>T2</u>			<u></u> <u>T3</u>					
AND	ed by: (Signature		Date 7	7.23	2245	Carth Mar	- 7/10/	23	Time 8	:10			i Temp '	c_	1			etty -	12	
ample Mat	rix: S - Soil, Sd - Sol					rangements are made. Hazardous s	Containe													

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

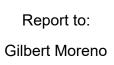
Client:	WPX Energy - Carlsbad Dat	te Received:	07/10/23 08:1	0	Work Order ID:	E307015
Phone:	(539) 573-4018 Dat	te Logged In:	07/07/23 16:2	8	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com Du	e Date:	07/13/23 17:0	0 (3 day TAT)		
Chain of	f Custody (COC)					
1. Does t	the sample ID match the COC?		Yes			
2. Does t	the number of samples per sampling site location match t	he COC	Yes			
3. Were s	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	he COC complete, i.e., signatures, dates/times, requested	analyses?	Yes			
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	field,	Yes		Commen	ts/Resolution
Samnle '	Turn Around Time (TAT)					
	the COC indicate standard TAT, or Expedited TAT?		Yes			
	•		105			
Sample 7 Was a	sample cooler received?		Yes			
	, was cooler received in good condition?		Yes			
•						
	he sample(s) received intact, i.e., not broken?		Yes			
	e custody/security seals present?		No			
	s, were custody/security seals intact?		NA			
12. Was ti	he sample received on ice? If yes, the recorded temp is 4°C, i.e., Note: Thermal preservation is not required, if samples are rec minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample tem	perature: <u>4°</u>	<u>C</u>			
Sample	<u>Container</u>					
14. Are a	aqueous VOC samples present?		No			
15. Are V	VOC samples collected in VOA Vials?		NA			
16. Is the	e head space less than 6-8 mm (pea sized or less)?		NA			
17. Was	a trip blank (TB) included for VOC analyses?		NA			
18. Are 1	non-VOC samples collected in the correct containers?		Yes			
9. Is the	appropriate volume/weight or number of sample containers	collected?	Yes			
Field La	<u>abel</u>					
	e field sample labels filled out with the minimum informa	tion:				
	Sample ID?		Yes			
	Date/Time Collected? Collectors name?		Yes			
	Preservation		Yes			
-	s the COC or field labels indicate the samples were preser	ved?	No			
	sample(s) correctly preserved?	····	NA			
	b filteration required and/or requested for dissolved metal	s?	No			
			110			
	ase Sample Matrix		Nc			
	s, does the COC specify which phase(s) is to be analyzed	9	No			
		1	NA			
	tract Laboratory					
	samples required to get sent to a subcontract laboratory?		No			
29. Was	a subcontract laboratory specified by the client and if so	who?	NA Su	bcontract Lab: NA		

Signature of client authorizing changes to the COC or sample disposition.



envirotech Inc.

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5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 17-25

Work Order: E307014

01058-0007 Job Number:

> Received: 7/10/2023

> > Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/12/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/12/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 17-25 Workorder: E307014 Date Received: 7/10/2023 8:10:00AM

Gilbert Moreno,



Page 53 of 369

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/10/2023 8:10:00AM, under the Project Name: RDX 17-25.

The analytical test results summarized in this report with the Project Name: RDX 17-25 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

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West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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eceived by OCD: 8/18/2023 7:32:08 AM	Sample Summary Project Name: RDX 17-25		Page 55				
	Sample Sum	mary					
WPX Energy - Carlsbad	Project Name:	RDX 17-25	Bonovtadi				
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:				
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	07/12/23 09:51				

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SW01 0 - 4'	E307014-01A Soil	07/05/23	07/10/23	Glass Jar, 2 oz.
SW02 0 - 4'	E307014-02A Soil	07/05/23	07/10/23	Glass Jar, 2 oz.



	50	imple D	ala			
WPX Energy - Carlsbad	Project Name:	RD	X 17-25			
5315 Buena Vista Dr	Project Numbe	er: 010	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	er: Gilb	ert Moreno			7/12/2023 9:51:53A
	S	SW01 0 - 4'				
	-	E307014-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: IY		Batch: 2328001
Benzene	ND	0.0250	1	07/10/23	07/10/23	
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23	
Toluene	ND	0.0250	1	07/10/23	07/10/23	
p-Xylene	ND	0.0250	1	07/10/23	07/10/23	
p,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
Fotal Xylenes	ND	0.0250	1	07/10/23	07/10/23	
Surrogate: 4-Bromochlorobenzene-PID		94.6 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: IY		Batch: 2328001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.5 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: KM		Batch: 2328010
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/23	07/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/23	07/10/23	
Surrogate: n-Nonane		93.3 %	50-200	07/10/23	07/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: BA		Batch: 2328004
Chloride	133	100	5	07/10/23	07/10/23	



	5	ample D	ala			
WPX Energy - Carlsbad	Project Name:	: RD2	K 17-25			
5315 Buena Vista Dr	Project Numb	er: 0103	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno	7/12/2023 9:51:53AN		
		SW02 0 - 4'				
		E307014-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2328001
Benzene	ND	0.0250	1	07/10/23	07/10/23	
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23	
Toluene	ND	0.0250	1	07/10/23	07/10/23	
o-Xylene	ND	0.0250	1	07/10/23	07/10/23	
o,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
Total Xylenes	ND	0.0250	1	07/10/23	07/10/23	
urrogate: 4-Bromochlorobenzene-PID		96.4 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2328001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.3 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	:: KM		Batch: 2328010
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/23	07/10/23	
Dil Range Organics (C28-C36)	ND	50.0	1	07/10/23	07/10/23	
urrogate: n-Nonane		94.4 %	50-200	07/10/23	07/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: BA		Batch: 2328004
Chloride	ND	200	10	07/10/23	07/10/23	



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	01	DX 17-25 058-0007 ilbert Moreno					Reported: 7/12/2023 9:51:53AM
		Volatile Or	rganics t	oy EPA 8021	1B				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2328001-BLK1)							Prepared: 0	7/10/23 A	analyzed: 07/10/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Foluene	ND	0.0250							
o-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.64		8.00		95.5	70-130			
LCS (2328001-BS1)							Prepared: 0	7/10/23 A	analyzed: 07/10/23
Benzene	5.06	0.0250	5.00		101	70-130			
Ethylbenzene	5.01	0.0250	5.00		100	70-130			
Toluene	5.08	0.0250	5.00		102	70-130			
p-Xylene	5.01	0.0250	5.00		100	70-130			
o,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			
Matrix Spike (2328001-MS1)				Source: I	E 307015 -	01	Prepared: 0	7/10/23 A	analyzed: 07/10/23
Benzene	5.15	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.09	0.0250	5.00	ND	102	61-133			
Toluene	5.18	0.0250	5.00	ND	104	61-130			
o-Xylene	5.10	0.0250	5.00	ND	102	63-131			
o,m-Xylene	10.4	0.0500	10.0	ND	104	63-131			
Total Xylenes	15.5	0.0250	15.0	ND	103	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.7	70-130			
Matrix Spike Dup (2328001-MSD1)				Source: I	E 307015 -	01	Prepared: 0	7/10/23 A	analyzed: 07/10/23
Benzene	4.95	0.0250	5.00	ND	99.0	54-133	3.95	20	
Ethylbenzene	4.89	0.0250	5.00	ND	97.9	61-133	3.92	20	
Toluene	4.97	0.0250	5.00	ND	99.3	61-130	4.15	20	
o-Xylene	4.91	0.0250	5.00	ND	98.2	63-131	3.82	20	
o,m-Xylene	9.98	0.0500	10.0	ND	99.8	63-131	3.71	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.3	63-131	3.74	20	



QC Summary Data

		QC D	uIIIII	ary Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	DX 17-25 1058-0007 filbert Moreno					Reported: 7/12/2023 9:51:53AM
	No	nhalogenated C		by EPA 801	5D - Gl	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2328001-BLK1)							Prepared: 0	7/10/23 A	Analyzed: 07/10/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.10		8.00		88.8	70-130			
LCS (2328001-BS2)							Prepared: 0	7/10/23 A	Analyzed: 07/10/23
Gasoline Range Organics (C6-C10)	40.9	20.0	50.0		81.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.15		8.00		89.4	70-130			
Matrix Spike (2328001-MS2)				Source: I	2307015-	01	Prepared: 0	7/10/23 A	Analyzed: 07/10/23
Gasoline Range Organics (C6-C10)	42.5	20.0	50.0	ND	85.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.97		8.00		87.1	70-130			
Matrix Spike Dup (2328001-MSD2)				Source: I	2307015-	01	Prepared: 0	7/10/23 A	Analyzed: 07/10/23
Gasoline Range Organics (C6-C10)	41.4	20.0	50.0	ND	82.9	70-130	2.52	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		8.00		88.1	70-130			

QC Summary Data

		QC SI	u111111	ii y Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	DX 17-25 1058-0007 ilbert Moreno					Reported: 7/12/2023 9:51:53AM
	Nonh	alogenated Orga	anics by	EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2328010-BLK1)							Prepared: 0	7/10/23 A	nalyzed: 07/10/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.3		50.0		90.5	50-200			
LCS (2328010-BS1)							Prepared: 0	7/10/23 A	analyzed: 07/10/23
Diesel Range Organics (C10-C28)	256	25.0	250		102	38-132			
Surrogate: n-Nonane	45.8		50.0		91.6	50-200			
Matrix Spike (2328010-MS1)				Source: E	307010-	01	Prepared: 0	7/10/23 A	analyzed: 07/11/23
Diesel Range Organics (C10-C28)	20100	1250	250	21400	NR	38-132			M4
Surrogate: n-Nonane	64.7		50.0		129	50-200			
Matrix Spike Dup (2328010-MSD1)				Source: E	307010-	01	Prepared: 0	7/10/23 A	analyzed: 07/11/23
Diesel Range Organics (C10-C28)	21000	1250	250	21400	NR	38-132	4.67	20	M4
Surrogate: n-Nonane	66.9		50.0		134	50-200			



QC Summary Data

		QU N	/411111	ing Date					
Energy - Carlsbad 3uena Vista Dr ad NM, 88220		Project Name: Project Number Project Manager	: 0	DX 17-25 1058-0007 ilbert Moreno					Reported: 7/12/2023 9:51:53AM
-		Anions	by EPA	300.0/9056 <i>A</i>	۸				Analyst: BA
	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
8004-BLK1)							Prepared: 0	7/10/23 A	nalyzed: 07/10/23
	ND	20.0							
004-BS1)							Prepared: 0	7/10/23 A	analyzed: 07/10/23
	251	20.0	250		101	90-110			
ke (2328004-MS1)				Source:	E307009-(01	Prepared: 0	7/10/23 A	analyzed: 07/10/23
	24600	1000	250	24500	24.4	80-120			M5
ke Dup (2328004-MSD1)				Source:	E307009-(01	Prepared: 0	7/10/23 A	analyzed: 07/10/23
	30300	1000	250	24500	NR	80-120	20.9	20	M5, R3
«e Dup (2328004-MSD1)				Source:	E307009-()1		Prepared: 0	Prepared: 07/10/23 A

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.



	_ ••-		
WPX Energy - Carlsbad	Project Name:	RDX 17-25	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	07/12/23 09:51

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.

M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated LCS spike recovery was acceptable.

R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



lient · M	PX Energy Pe	rmian II C				Bill To		100000		12	b Use (Daly	STORE STORE			TAT	F	FPA D	ogram		
	RDX 17-25					ention: Jim Raley		Lah	WO#				mber	1D	2D		Standard	CWA	SDWA		
	Aanager: Gilbe	ert Moren	0			dress: 5315 Buena Vista Dr.			50	101			8-000-8		20		5 day TAT	CWA	JUWA		
	13000 W Cou					, State, Zip: Carlsbad, NM, 88	3220	L.		101			and Metho				Judy IAI		RCRA		
	e, Zip_Odessa					one: 575-885-7502		-	>	1	1	1,9515			T	T					
	832) 541-7719					ail: jim.raley@dvn.com		-	RO b						-			State			
	evon-team@e		com): 21181900			0/0		- 1 i i	0		5			NM CO	UTAZ	TX		
	d by: Edyte Ko					ident ID: nAB1712952339		-	/DR	8021	1260	300		MN		¥					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab				TPH GRO/DRO/ORO by 8015 BTEX by 8021	8015 BTEX by 8021	втех by	VOC by 8260 Matale 6010	Chlorida 300.0		BGDOC		GDOC		Remarks	Page rogram SDWA RCRA TX
10:40	7/5/2023	S	1			SW01	1	0-4'						X							
10:50	7/5/2023	S	1			SW02	2	0-4'				-		x				53.			
Addition	al Instruction	0	que																		
	pler), attest to the vertice of collection is cor		0.001 0.002 0.0020			tampering with or intentionally mislabel Sampled by: EK	ling the sample lo	cation,						n avg terr	np above	e 0 but le	eived on ice the da ess than 6 °C on sub		pled or		
Ca	ef by: (Signature		Date 7.0 Date	1.23	Time	Received by: (Signature) Micheller Centry Received by: (Signature)	Date Date	23	Time D Time	800	Re	eceiv	ed on ice:		b Use	e Only	Y				
Mid	ed by: (Signature	wales		6:23	1630 Time	Myler Myso Regeived by: (Eignature)	7.7. Date /	23	16 Time	33	<u>0 T</u>	-		<u>T2</u>			<u>T3</u>				
And	lew N.	1900	7.	7.23	2245	Carth Ma	~ 7/10/	23	8	:/0	1000		emp°C	+							
	trix: S - Soil, Sd - Sol					rrangements are made. Hazardous							stic, ag - am								

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

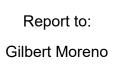
Client:	WPX Energy - Carlsbad Da	te Received:	07/10/23	08:10	Work Order ID:	E307014
Phone:	(539) 573-4018 Da	te Logged In:	07/07/23	16:24	Logged In By:	Caitlin Mars
Email:		e Date:		17:00 (3 day TAT)		
Chain o	f Custody (COC)					
. Does	the sample ID match the COC?		Yes			
	the number of samples per sampling site location match t	he COC	Yes			
. Were	samples dropped off by client or carrier?		Yes	Carrier: Courier		
. Was tl	he COC complete, i.e., signatures, dates/times, requested	analyses?	Yes			
. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	field,	Yes		Comment	ts/Resolution
Sample	Turn Around Time (TAT)					
. Did th	ne COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	<u>Cooler</u>					
. Was a	sample cooler received?		Yes			
. If yes,	, was cooler received in good condition?		Yes			
). Was tl	he sample(s) received intact, i.e., not broken?		Yes			
0. Were	e custody/security seals present?		No			
1. If ye	s, were custody/security seals intact?		NA			
2. Was t	the sample received on ice? If yes, the recorded temp is 4°C, i.e., Note: Thermal preservation is not required, if samples are rec minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample tem	perature: <u>4°</u>	<u>C</u>			
	<u>Container</u>	-				
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
16. Is the	e head space less than 6-8 mm (pea sized or less)?		NA			
17. Was	a trip blank (TB) included for VOC analyses?		NA			
18. Are 1	non-VOC samples collected in the correct containers?		Yes			
9. Is the	appropriate volume/weight or number of sample containers	collected?	Yes			
Field La	abel					
20. Were	e field sample labels filled out with the minimum informa	tion:				
5	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
	<u>Preservation</u>	mrad0	N-			
	s the COC or field labels indicate the samples were preserved?	iveu?	No NA			
	sample(s) correctly preserved? b filteration required and/or requested for dissolved meta	le?	NA No			
		13 :	INO			
	nase Sample Matrix					
	s the sample have more than one phase, i.e., multiphase?	10	No			
27. If ye	s, does the COC specify which phase(s) is to be analyzed	17	NA			
	tract Laboratory					
	samples required to get sent to a subcontract laboratory?		No			
20 117	a subcontract laboratory specified by the client and if so	who?	NA	Subcontract Lab: NA		

Ø

envirotech Inc.

Signature of client authorizing changes to the COC or sample disposition.

Date





5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 17 FEDERAL # 36H

Work Order: E307016

Job Number: 01058-0007

Received: 7/10/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/13/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 7/13/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 17 FEDERAL # 36H Workorder: E307016 Date Received: 7/10/2023 8:10:00AM

Gilbert Moreno,





Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/10/2023 8:10:00AM, under the Project Name: RDX 17 FEDERAL # 36H.

The analytical test results summarized in this report with the Project Name: RDX 17 FEDERAL # 36H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

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Sample Summary

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		Sample Sum	mai y		
WPX Energy - Carlsbad		Project Name:	RDX 17 FEDERA	L#36H	Depented
5315 Buena Vista Dr		Project Number:	01058-0007		Reported:
Carlsbad NM, 88220		Project Manager:	Gilbert Moreno		07/13/23 08:33
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 0.5'	E307016-01A	Soil	07/05/23	07/10/23	Glass Jar, 2 oz.
BH01 1'	E307016-02A	Soil	07/05/23	07/10/23	Glass Jar, 2 oz.
BH02 0.5'	E307016-03A	Soil	07/05/23	07/10/23	Glass Jar, 2 oz.
BH02 1'	E307016-04A	Soil	07/05/23	07/10/23	Glass Jar, 2 oz.
BH03 0.5'	E307016-05A	Soil	07/05/23	07/10/23	Glass Jar, 2 oz.
BH03 1'	E307016-06A	Soil	07/05/23	07/10/23	Glass Jar, 2 oz.
BH04 0.5'	E307016-07A	Soil	07/05/23	07/10/23	Glass Jar, 2 oz.
BH04 1'	E307016-08A	Soil	07/05/23	07/10/23	Glass Jar, 2 oz.



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WPX Energy - Carlsbad	Project Name	e: RD2	X 17 FEDERAL	# 36H			
5315 Buena Vista Dr	Project Numb	oer: 010	58-0007			Reported:	
Carlsbad NM, 88220	Project Mana	ger: Gilb	ert Moreno			7/13/2023 8:33:18AM	
		BH01 0.5'					
		E307016-01					
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2328002	
Benzene	ND	0.0250	1	07/10/23	07/10/23		
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23		
oluene	ND	0.0250	1	07/10/23	07/10/23		
o-Xylene	ND	0.0250	1	07/10/23	07/10/23		
o,m-Xylene	ND	0.0500	1	07/10/23	07/10/23		
Total Xylenes	ND	0.0250	1	07/10/23	07/10/23		
urrogate: 4-Bromochlorobenzene-PID		97.2 %	70-130	07/10/23	07/10/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2328002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23		
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.9 %	70-130	07/10/23	07/10/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2328005	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/23	07/10/23		
Dil Range Organics (C28-C36)	ND	50.0	1	07/10/23	07/10/23		
urrogate: n-Nonane		98.9 %	50-200	07/10/23	07/10/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2328006	
Chloride	301	100	5	07/10/23	07/10/23		



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WPX Energy - Carlsbad	Project Name	: RD2	X 17 FEDERAL #	36H			
5315 Buena Vista Dr	Project Numb	oer: 010	58-0007			Reported:	
Carlsbad NM, 88220	Project Mana	ger: Gilb	ert Moreno			7/13/2023 8:33:18AM	
		BH01 1'					
		E307016-02					
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2328002	
Benzene	ND	0.0250	1	07/10/23	07/10/23		
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23		
Foluene	ND	0.0250	1	07/10/23	07/10/23		
p-Xylene	ND	0.0250	1	07/10/23	07/10/23		
p,m-Xylene	ND	0.0500	1	07/10/23	07/10/23		
Fotal Xylenes	ND	0.0250	1	07/10/23	07/10/23		
Surrogate: 4-Bromochlorobenzene-PID		97.1 %	70-130	07/10/23	07/10/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2328002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23		
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.0 %	70-130	07/10/23	07/10/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2328005	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/23	07/10/23		
Dil Range Organics (C28-C36)	ND	50.0	1	07/10/23	07/10/23		
Surrogate: n-Nonane		92.7 %	50-200	07/10/23	07/10/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2328006	
Chloride	329	200	10	07/10/23	07/10/23		



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WPX Energy - Carlsbad	Project Name	: RD2	X 17 FEDERAL #	36H			
5315 Buena Vista Dr	Project Numb	oer: 010	58-0007			Reported:	
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			7/13/2023 8:33:18AM	
		BH02 0.5'					
		E307016-03					
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	:: IY		Batch: 2328002	
Benzene	ND	0.0250	1	07/10/23	07/10/23		
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23		
Toluene	ND	0.0250	1	07/10/23	07/10/23		
p-Xylene	ND	0.0250	1	07/10/23	07/10/23		
o,m-Xylene	ND	0.0500	1	07/10/23	07/10/23		
Total Xylenes	ND	0.0250	1	07/10/23	07/10/23		
Surrogate: 4-Bromochlorobenzene-PID		97.8 %	70-130	07/10/23	07/10/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: IY		Batch: 2328002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23		
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.7 %	70-130	07/10/23	07/10/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	:: KM		Batch: 2328005	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/23	07/10/23		
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/23	07/10/23		
Surrogate: n-Nonane		99.7 %	50-200	07/10/23	07/10/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: BA		Batch: 2328006	
Chloride	ND	200	10	07/10/23	07/10/23		



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WPX Energy - Carlsbad 5315 Buena Vista Dr	Project Name: Project Numb		X 17 FEDERAL # 58-0007	36Н		Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			7/13/2023 8:33:18AM
		BH02 1'				
		E307016-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2328002
Benzene	ND	0.0250	1	07/10/23	07/10/23	
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23	
Toluene	ND	0.0250	1	07/10/23	07/10/23	
o-Xylene	ND	0.0250	1	07/10/23	07/10/23	
p,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
Total Xylenes	ND	0.0250	1	07/10/23	07/10/23	
Surrogate: 4-Bromochlorobenzene-PID		97.7 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2328002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.0 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2328005
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/23	07/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/23	07/10/23	
Surrogate: n-Nonane		102 %	50-200	07/10/23	07/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2328006
Chloride	ND	200	10	07/10/23	07/10/23	



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WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name Project Numb Project Mana	ber: 010	X 17 FEDERAL # 58-0007 ert Moreno	36Н		Reported: 7/13/2023 8:33:18AM
		BH03 1'				
		E307016-06				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2328002
Benzene	ND	0.0250	1	07/10/23	07/10/23	
thylbenzene	ND	0.0250	1	07/10/23	07/10/23	
oluene	ND	0.0250	1	07/10/23	07/10/23	
-Xylene	ND	0.0250	1	07/10/23	07/10/23	
,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
Total Xylenes	ND	0.0250	1	07/10/23	07/10/23	
urrogate: 4-Bromochlorobenzene-PID		97.1 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2328002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		86.8 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2328005
Diesel Range Organics (C10-C28)	749	25.0	1	07/10/23	07/10/23	
Dil Range Organics (C28-C36)	517	50.0	1	07/10/23	07/10/23	
urrogate: n-Nonane		103 %	50-200	07/10/23	07/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2328006
Chloride	296	40.0	2	07/10/23	07/10/23	



~					
Project Name:	RD	X 17 FEDERAL #	36H		
Project Numbe	er: 010	58-0007		Reported:	
Project Manag	ger: Gilb	ert Moreno			7/13/2023 8:33:18AM
	BH04 0.5'				
	E307016-07				
	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analys	:: IY		Batch: 2328002
ND	0.0250	1	07/10/23	07/10/23	
ND	0.0250	1	07/10/23	07/10/23	
ND	0.0250	1	07/10/23	07/10/23	
ND	0.0250	1	07/10/23	07/10/23	
ND	0.0500	1	07/10/23	07/10/23	
ND	0.0250	1	07/10/23	07/10/23	
	98.1 %	70-130	07/10/23	07/10/23	
mg/kg	mg/kg	Analys	:: IY		Batch: 2328002
ND	20.0	1	07/10/23	07/10/23	
	86.9 %	70-130	07/10/23	07/10/23	
mg/kg	mg/kg	Analys	:: KM		Batch: 2328005
ND	25.0	1	07/10/23	07/10/23	
ND	50.0	1	07/10/23	07/10/23	
	98.8 %	50-200	07/10/23	07/10/23	
mg/kg	mg/kg	Analys	:: BA		Batch: 2328006
37.2	20.0	1	07/10/23	07/10/23	
	Project Name: Project Numbo Project Manage Result Mg/kg ND ND ND ND ND ND ND ND ND ND ND ND ND	Project Name: RD2 Project Number: 0102 Project Manager: Gilb Project Manager: Gilb BH04 0.5' E307016-07 E307016-07 Imit Mg/kg Mg/kg Mg/kg Mg/kg ND 0.0250 ND 20.0 88.1 % Mg/kg Mg/kg Mg/kg ND 25.0 ND 50.0 ND 98.8 % Mg/kg Mg/kg	Project Number: 01058-0007 Project Manager: Gilbert Moreno BH04 0.5' E307016-07 Reporting Result Limit Dilution mg/kg mg/kg Analyst ND 0.0250 1 ND 20.0 1 Mg/kg mg/kg Analyst MD 20.0 1 MD 25.0 1 ND 25.0 1 ND 25.0 1 ND 50.0 1 ND 50.0 1 ND 50.0 1 ND	IProject Name: RDX 17 FEDERAL # 36H Project Number: 01058-0007 Project Manager: Gilbert Moreno BH04 0.5' Result Dilution Prepared Mp(kg mg/kg Analyst: J' ND 0.0250 1 07/10/23 ND 0.0250 1 07/10/23 ND 0.0250 1 07/10/23 ND 20.02 1 07/10/23 Mp(kg mg/kg Mg/kg Analyst: J' MD 25.0 1 07/10/23 MD 25.0 1 07/10/23 MD 25.0 1 07/10/23	Project Name: RDX 17 FEDERAL # 36H Project Number: 01058-0007 Project Manager: Gilbert Moreno BH04 0.5' State E307016-07 Analyzed Result Limit Dilution Prepared Analyzed MD 0.0250 1 07/10/23 07/10/23 ND 20.0 0 07/10/23 07/10/23 MD 20.0 0 07/10/23 07/10/23 MD 25.



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WPX Energy - Carlsbad	Project Nam	e: RD2	X 17 FEDERAL #	36H		
5315 Buena Vista Dr	Project Num	ber: 010	58-0007			Reported:
Carlsbad NM, 88220	Project Mana	ager: Gilb	ert Moreno			7/13/2023 8:33:18AM
		BH04 1'				
		E307016-08				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2328002
Benzene	ND	0.0250	1	07/10/23	07/10/23	
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23	
Toluene	ND	0.0250	1	07/10/23	07/10/23	
p-Xylene	ND	0.0250	1	07/10/23	07/10/23	
o,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
Total Xylenes	ND	0.0250	1	07/10/23	07/10/23	
Surrogate: 4-Bromochlorobenzene-PID		97.8 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2328002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.7 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2328005
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/23	07/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/23	07/10/23	
Surrogate: n-Nonane		101 %	50-200	07/10/23	07/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2328006
Chloride	27.2	20.0	1	07/10/23	07/10/23	



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	C	RDX 17 FEDE 1058-0007 Gilbert Moreno		ł			Reported: 7/13/2023 8:33:18AM
Calisbau NWI, 88220		, <u>c</u>		by EPA 802					
		volatile Ol	games	UY LI A 802	41 D				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2328002-BLK1)							Prepared: 0	7/10/23 A	nalyzed: 07/10/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.9	70-130			
LCS (2328002-BS1)							Prepared: 0	7/10/23 A	nalyzed: 07/10/23
Benzene	4.12	0.0250	5.00		82.4	70-130			
Ethylbenzene	4.01	0.0250	5.00		80.2	70-130			
Foluene	4.14	0.0250	5.00		82.8	70-130			
p-Xylene	4.13	0.0250	5.00		82.7	70-130			
o,m-Xylene	8.33	0.0500	10.0		83.3	70-130			
Total Xylenes	12.5	0.0250	15.0		83.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.85		8.00		98.2	70-130			
Matrix Spike (2328002-MS1)				Source:	E307016-	03	Prepared: 0	7/10/23 A	nalyzed: 07/10/23
Benzene	4.87	0.0250	5.00	ND	97.3	54-133			
Ethylbenzene	4.77	0.0250	5.00	ND	95.5	61-133			
Toluene	4.91	0.0250	5.00	ND	98.3	61-130			
p-Xylene	4.92	0.0250	5.00	ND	98.5	63-131			
o,m-Xylene	9.90	0.0500	10.0	ND	99.0	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			
Matrix Spike Dup (2328002-MSD1)			Source:	E307016-	03	Prepared: 0	7/10/23 A	analyzed: 07/10/23	
Benzene	5.05	0.0250	5.00	ND	101	54-133	3.70	20	
Ethylbenzene	4.93	0.0250	5.00	ND	98.7	61-133	3.33	20	
Toluene	5.08	0.0250	5.00	ND	102	61-130	3.35	20	
p-Xylene	5.08	0.0250	5.00	ND	102	63-131	3.19	20	
o,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	3.28	20	
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131	3.25	20	



QC Summary Data

		QC D	umm	ary Data	u				
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		RDX 17 FEDE 1058-0007	RAL # 36H	I			Reported:
Carlsbad NM, 88220		Project Manager:	C	Gilbert Moreno					7/13/2023 8:33:18AM
	No	nhalogenated (Organics	by EPA 80	15D - GI	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2328002-BLK1)							Prepared: 0	7/10/23 A	nalyzed: 07/10/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.91		8.00		86.4	70-130			
LCS (2328002-BS2)							Prepared: 0	7/10/23 A	nalyzed: 07/10/23
Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		8.00		88.0	70-130			
Matrix Spike (2328002-MS2)				Source:	E307016-	03	Prepared: 0	7/10/23 A	nalyzed: 07/10/23
Gasoline Range Organics (C6-C10)	44.7	20.0	50.0	ND	89.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		8.00		87.2	70-130			
Matrix Spike Dup (2328002-MSD2)				Source:	E307016-	03	Prepared: 0	7/10/23 A	nalyzed: 07/10/23
Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.2	70-130	5.38	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.01		8.00		87.6	70-130			

QC Summary Data

		QC D	u I I I I I I	ary Data	L				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:		RDX 17 FEDER 01058-0007 Gilbert Moreno	AL # 361	ł			Reported: 7/13/2023 8:33:18AM
Carisbau Ivivi, 88220		Floject Mallagel.							1/15/2025 0.55.10AW
	Nonh	alogenated Org	anics b	y EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2328005-BLK1)							Prepared: 0	7/10/23 A	nalyzed: 07/10/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.1		50.0		102	50-200			
LCS (2328005-BS1)							Prepared: 0	7/10/23 A	analyzed: 07/10/23
Diesel Range Organics (C10-C28)	256	25.0	250		102	38-132			
Surrogate: n-Nonane	48.3		50.0		96.6	50-200			
Matrix Spike (2328005-MS1)				Source: I	E307015-	01	Prepared: 0	7/10/23 A	analyzed: 07/10/23
Diesel Range Organics (C10-C28)	254	25.0	250	ND	102	38-132			
Surrogate: n-Nonane	46.7		50.0		93.3	50-200			
Matrix Spike Dup (2328005-MSD1)				Source: I	E307015-	01	Prepared: 0	7/10/23 A	analyzed: 07/10/23
Diesel Range Organics (C10-C28)	259	25.0	250	ND	103	38-132	1.79	20	
Surrogate: n-Nonane	49.3		50.0		98.6	50-200			



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager	:	RDX 17 FEDEl 01058-0007 Gilbert Moreno		ĺ			Reported: 7/13/2023 8:33:18AM
		Anions	by EPA	300.0/9056 A	4				Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2328006-BLK1)							Prepared: 0'	7/10/23 A	Analyzed: 07/10/23
Chloride	ND	20.0							
LCS (2328006-BS1)							Prepared: 0'	7/10/23 A	Analyzed: 07/10/23
Chloride	249	20.0	250		99.4	90-110			
Matrix Spike (2328006-MS1)				Source:	E307015-0)1	Prepared: 0'	7/10/23 A	Analyzed: 07/10/23
Chloride	402	100	250	163	96.0	80-120			
Matrix Spike Dup (2328006-MSD1)				Source:	E307015-0)1	Prepared: 0'	7/10/23 A	Analyzed: 07/10/23
Chloride	399	100	250	163	94.7	80-120	0.763	20	

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.



Definitions and Notes

Γ	WPX Energy - Carlsbad	Project Name:	RDX 17 FEDERAL # 36H	
	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	07/13/23 08:33

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Released

Page	1	C

ent: W	PX Energy Pe	rmian LLC	2.			Bill To			1- 1-	La	ab Use	e On	ily	10.00			TAT	-	EPA P	Page rogram SDWA RCRA TX
	DX 17 FEDER				Atte	ention: Jim Raley		Lat	WO	_			Number		1D 2	2D	3D	Standard	CWA	SDWA
	lanager: Gilbe		10		Add	dress: 5315 Buena Vista I	Dr.		3070				58-00					5 day TAT		1
	13000 W Cou					, State, Zip: Carlsbad, NN							sis and N		3	l				RCRA
	e, Zip_Odessa					one: 575-885-7502		-	2		ГТ			1		1				
	32) 541-7719					ail: jim.raley@dvn.com			ROF	ě., 1									State	
	von-team@e		com): 21181922			0/0				o,		WN			NM CO	UT AZ	TX
	by: Edyte Ko					dent ID: NRM201764373	36		/DR	802.	260	010	300				ř			
Time		100	No. of		- L'anna		Lab	th (ft	TPH GRO/DRO/ORO by 8015	(by	by 8	als 6	ride		S		2			
mpled	Date Sampled	Matrix	Containers	Sample ID			Numb	Depth(ft.)	TPH (BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC		Remarks	5
1:00	7/5/2023	S	1			BH01	1	0.5	;'					-	x					
1:10	7/5/2023	S	1			BH01	2	1'							x					
1:20	7/5/2023	S	1			BH02	3	0.5	;'						x					
1:30	7/5/2023	S	1			BH02	4	1'	1						x					
1:40	7/5/2023	S	1			BH03	5	0.5	5'						x					
1:50	7/5/2023	S	1		ВНОЗ		6	1'							x					
2:00	7/5/2023	S	1			BH04	7	0.5	5'						х					
2:10	7/5/2023	S	1			BH04	8	1'							x					
		1																		
_	afor	0																		
dition	al Instruction	is:				a area adjugational i			-		·			-	المحمد	l.				
	ler), attest to the v of collection is cor		2			tampering with or intentionally mi Sampled by: EK	islabelling the sample	location	·			Sale In the second	- Services and the service of the	Contraction Section 1				eived on ice the da ss than 6 °C on sui	and the second se	0.010.0014530
	by: (Signature		Date	Tir	me 08:00	Received by: (Signature)	Date 7-6	-23	Time	800		Rece	eived on	ice:	-	b Use / N	e Only			
inquiste	d by: (Signature	1	Date		me (630	Received by: (Signature)	Date		Time			T1			<u>T2</u> <u>T3</u>					
	ed by: (Signature	1500	Date	2 N 10	2245	Received by: (Signature)	u 7/10	23	Time		2	AVG	i Temp °	c_4	1					
	ix: S - Soil, Sd - Sol	lid, Sg - Sludg	e, A - Aqueo	ous, O - Other					be: g -	glass	, p - p	oly/p	plastic, ag	- aml	per gla	ss, v ·	- VOA			

Envirotech Analytical Laboratory

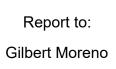
Sample Receipt Checklist (SRC)

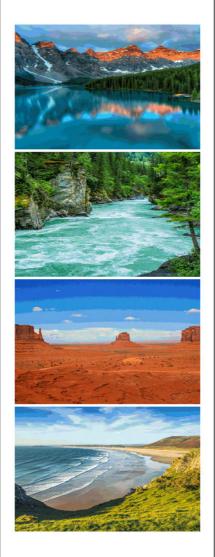
Client:	WPX Energy - Carlsbad Da	te Received:	07/10/23	08:10	Work Order ID:	E307016
Phone:	(539) 573-4018 Da	te Logged In:	07/07/23	16:43	Logged In By:	Caitlin Mars
Email:		e Date:		17:00 (3 day TAT)		
<u>Chain</u>	of Custody (COC)					
	the sample ID match the COC?		Yes			
	the number of samples per sampling site location match t	he COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was	the COC complete, i.e., signatures, dates/times, requested	analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	field,	Yes		Commen	ts/Resolution
	e <u>Turn Around Time (TAT)</u> he COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	e Cooler					
	a sample cooler received?		Yes			
8. If ye	s, was cooler received in good condition?		Yes			
9. Was	the sample(s) received intact, i.e., not broken?		Yes			
10. Wei	re custody/security seals present?		No			
11. If y	es, were custody/security seals intact?		NA			
	the sample received on ice? If yes, the recorded temp is 4°C, i.e., Note: Thermal preservation is not required, if samples are rec minutes of sampling visible ice, record the temperature. Actual sample temperature	eived w/i 15	Yes			
	o visible ice, record the temperature. Actual sample tem	iperature: <u>4</u>	<u>c</u>			
	e Container		N			
	aqueous VOC samples present? VOC samples collected in VOA Vials?		No NA			
	he head space less than 6-8 mm (pea sized or less)?		NA			
	s a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
	e appropriate volume/weight or number of sample containers	collected?	Yes			
Field L	11 I 0 I	concetted.	105			
	re field sample labels filled out with the minimum information of the minim	ation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes	L		
_	Collectors name?		Yes			
	e Preservation	10				
	es the COC or field labels indicate the samples were preser	rved?	No			
	sample(s) correctly preserved?	1-9	NA N-			
	ab filteration required and/or requested for dissolved meta	15 /	No			
	hase Sample Matrix					
	es the sample have more than one phase, i.e., multiphase?	10	No			
27. lf y	es, does the COC specify which phase(s) is to be analyzed	17	NA			
	itract Laboratory					
28. Are	samples required to get sent to a subcontract laboratory?		No			
	s a subcontract laboratory specified by the client and if so					

Signature of client authorizing changes to the COC or sample disposition.



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5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 17-25

Work Order:

E307053

Job Number: 01058-0007

Received: 7/14/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/19/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 7/19/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 17-25 Workorder: E307053 Date Received: 7/14/2023 8:35:00AM

Gilbert Moreno,



Page 85 of 369

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/14/2023 8:35:00AM, under the Project Name: RDX 17-25.

The analytical test results summarized in this report with the Project Name: RDX 17-25 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com

Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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	Sample Sum	mary		
	Project Name:	RDX 17-25		Reported:
	Project Number:	01058-0007		Reporteu:
	Project Manager:	Gilbert Moreno		07/19/23 15:57
Lab Sample ID	Matrix	Sampled	Received	Container
Lab Sample ID E307053-01A	Matrix Soil	Sampled 07/13/23	Received 07/14/23	Container Glass Jar, 2 oz.
ľ		•		
		Project Name: Project Number:	Project Number: 01058-0007	Project Name: RDX 17-25 Project Number: 01058-0007



	D.a	mpic D	uta				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Project Numbe Project Manage	r: 010:	K 17-25 58-0007 ert Moreno				Reported: 7/19/2023 3:57:29PM
		FS11 4'					
]	E307053-01					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	1	Analyst: IY	,		Batch: 2328065
Benzene	ND	0.0250	1		07/14/23	07/17/23	
Ethylbenzene	ND	0.0250	1		07/14/23	07/17/23	
foluene	ND	0.0250	1		07/14/23	07/17/23	
p-Xylene	ND	0.0250	1		07/14/23	07/17/23	
o,m-Xylene	ND	0.0500	1		07/14/23	07/17/23	
Fotal Xylenes	ND	0.0250	1		07/14/23	07/17/23	
Surrogate: 4-Bromochlorobenzene-PID		98.6 %	70-130		07/14/23	07/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ĺ	Analyst: IY	,		Batch: 2328065
Gasoline Range Organics (C6-C10)	ND	20.0	1		07/14/23	07/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.5 %	70-130		07/14/23	07/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: K	М		Batch: 2329005
Diesel Range Organics (C10-C28)	ND	25.0	1		07/17/23	07/17/23	
Dil Range Organics (C28-C36)	ND	50.0	1		07/17/23	07/17/23	
Surrogate: n-Nonane		102 %	50-200		07/17/23	07/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: B	A		Batch: 2328061
Chloride	2200	20.0	1		07/14/23	07/17/23	



D	ample D	ata			
Project Name:	RDZ	K 17-25			
Project Number	er: 0103	58-0007			Reported:
Project Manag	ger: Gilb	ert Moreno			7/19/2023 3:57:29PM
	FS12 4'				
	E307053-02				
	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analys	:: IY		Batch: 2328065
ND	0.0250	1	07/14/23	07/17/23	
ND	0.0250	1	07/14/23	07/17/23	
ND	0.0250	1	07/14/23	07/17/23	
ND	0.0250	1	07/14/23	07/17/23	
ND	0.0500	1	07/14/23	07/17/23	
ND	0.0250	1	07/14/23	07/17/23	
	101 %	70-130	07/14/23	07/17/23	
mg/kg	mg/kg	Analys	:: IY		Batch: 2328065
ND	20.0	1	07/14/23	07/17/23	
	81.4 %	70-130	07/14/23	07/17/23	
mg/kg	mg/kg	Analys	: KM		Batch: 2329005
ND	25.0	1	07/17/23	07/17/23	
ND	50.0	1	07/17/23	07/17/23	
	106 %	50-200	07/17/23	07/17/23	
mg/kg	mg/kg	Analys	:: BA		Batch: 2328061
3920	40.0	2	07/14/23	07/17/23	
	Project Name: Project Numb Project Manag Result Mg/kg ND ND ND ND ND ND ND ND ND ND ND ND ND	Project Name: RD2 Project Number: 0102 Project Manager: Gilb Project Manager: Gilb FS12 4' E307053-02 E307053-02 Imir Result Limit mg/kg mg/kg ND 0.0250 ND 20.0 SIL4 % mg/kg mg/kg mg/kg ND 25.0 ND 50.0 ND 50.0 ND 50.0 ND 50.0 ND	Project Number: 01058-0007 Project Manager: Gilbert Moreno FS12 4' E307053-02 Reporting Result Limit Dilution mg/kg mg/kg Analyst ND 0.0250 1 ND 20.0 1 Mg/kg mg/kg Analyst MD 25.0 1 ND 25.0 1 ND 25.0 1 ND 50.0 1 ND 50.0 1 ND 50.0 1 ND	Project Name: RDX 17-25 Project Number: 01058-0007 Project Manager: Gilbert Moreno FS12 4' State E307053-02 Prepared Result Limit Dilution Prepared MD 0.0250 1 07/14/23 ND 20.00 1 07/14/23 ND 20.00 1 07/14/23 MD 20.00 1 07/14/23 MD 20.00 1 07/14/23 MD 25.0 1	Project Name: RDX 17-25 Project Number: 01058-0007 Project Manager: Gilbert Moreno FS12 4' Signo 53-02 E307053-02 Analyzed Result Limit Dilution Prepared Analyzed Mg/kg mg/kg Analyst: IY Manalyzed Manalyzed ND 0.0250 1 07/14/23 07/17/23 ND 20.0 1 07/14/23 07/17/23 MD 20.0 1 07/14/23 07/17/23 MD 20.0 1 07/14/23 07/17/23 MD <t< td=""></t<>

	3	ample D	ata			
WPX Energy - Carlsbad	Project Name:	: RD2	X 17-25			
5315 Buena Vista Dr	Project Numb	er: 010	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			7/19/2023 3:57:29PM
		FS13 4'				
		E307053-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2328065
Benzene	ND	0.0250	1	07/14/23	07/17/23	
Ethylbenzene	ND	0.0250	1	07/14/23	07/17/23	
Toluene	ND	0.0250	1	07/14/23	07/17/23	
p-Xylene	ND	0.0250	1	07/14/23	07/17/23	
p,m-Xylene	ND	0.0500	1	07/14/23	07/17/23	
Fotal Xylenes	ND	0.0250	1	07/14/23	07/17/23	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	07/14/23	07/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2328065
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/14/23	07/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		81.8 %	70-130	07/14/23	07/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	:: KM		Batch: 2329005
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/23	07/17/23	
Dil Range Organics (C28-C36)	ND	50.0	1	07/17/23	07/17/23	
Surrogate: n-Nonane		101 %	50-200	07/17/23	07/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2328061
Chloride	2740	40.0	2	07/14/23	07/17/23	

QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	01	DX 17-25 .058-0007 ilbert Moreno					Reported: 7/19/2023 3:57:29PM
		Volatile O	rganics l	oy EPA 802	1 B				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2328065-BLK1)							Prepared: 0	7/14/23 A	nalyzed: 07/17/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Foluene	ND	0.0250							
p-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.0	70-130			
LCS (2328065-BS1)							Prepared: 0	7/14/23 A	nalyzed: 07/17/23
Benzene	4.82	0.0250	5.00		96.5	70-130			
Ethylbenzene	4.71	0.0250	5.00		94.2	70-130			
Toluene	4.86	0.0250	5.00		97.1	70-130			
p-Xylene	4.85	0.0250	5.00		97.1	70-130			
o,m-Xylene	9.77	0.0500	10.0		97.7	70-130			
Total Xylenes	14.6	0.0250	15.0		97.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.84		8.00		98.0	70-130			
Matrix Spike (2328065-MS1)				Source:	E307053-(01	Prepared: 0	7/14/23 A	nalyzed: 07/17/23
Benzene	5.06	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.93	0.0250	5.00	ND	98.6	61-133			
Toluene	5.09	0.0250	5.00	ND	102	61-130			
p-Xylene	5.09	0.0250	5.00	ND	102	63-131			
o,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.91		8.00		98.9	70-130			
Matrix Spike Dup (2328065-MSD1)				Source:	E307053-(01	Prepared: 0	7/14/23 A	nalyzed: 07/17/23
Benzene	5.00	0.0250	5.00	ND	100	54-133	1.20	20	
Ethylbenzene	4.89	0.0250	5.00	ND	97.7	61-133	0.905	20	
Toluene	5.03	0.0250	5.00	ND	101	61-130	1.15	20	
p-Xylene	5.04	0.0250	5.00	ND	101	63-131	1.03	20	
o,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	1.10	20	
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131	1.07	20	



QC Summary Data

	QC D	uIIIII	ary Data					
	Project Name: Project Number: Project Manager:	0	1058-0007					Reported: 7/19/2023 3:57:29PM
No	nhalogenated O	Organics	by EPA 801	5D - Gl	RO			Analyst: IY
Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
						Prepared: 0	7/14/23 A	nalyzed: 07/17/23
ND	20.0							
6.59		8.00		82.4	70-130			
						Prepared: 0	7/14/23 A	nalyzed: 07/17/23
47.2	20.0	50.0		94.5	70-130			
6.77		8.00		84.6	70-130			
			Source: H	2307053-0	01	Prepared: 0	7/14/23 A	nalyzed: 07/17/23
45.2	20.0	50.0	ND	90.4	70-130			
6.65		8.00		83.2	70-130			
			Source: H	2307053-0	01	Prepared: 0	7/14/23 A	nalyzed: 07/17/23
44.9	20.0	50.0	ND	89.8	70-130	0.677	20	
6.72		8.00		83.9	70-130			
	Result mg/kg ND 6.59 47.2 6.77 45.2 6.65 44.9	Project Name: Project Number: Project Manager: Nonhalogenated C Result mg/kg ND 20.0 6.59 47.2 20.0 6.77 45.2 20.0 6.65 44.9 20.0	Project Name: R Project Number: 0 Project Manager: 0 Nonhalogenated Organics Spike Result Limit gr/kg mg/kg mg/kg mg/kg ND 20.0 6.59 47.2 20.0 50.0 6.77 8.00 6.65 45.2 20.0 50.0 44.9 20.0 50.0	Nonhalogenated Spike Limit Spike Level Source Result ND 20.0 50.0 6.59 8.00 50.0 47.2 20.0 50.0 6.77 8.00 50.0 47.2 20.0 50.0 6.59 8.00 50.0 47.2 20.0 50.0 47.2 20.0 50.0 47.2 20.0 50.0 47.2 20.0 50.0 47.2 20.0 50.0 47.2 20.0 50.0 44.9 20.0 50.0	Nonhalogenated Organics by EPA 8015D - GI Nonhalogenated Organics by EPA 8015D - GI Nonhalogenated Organics by EPA 8015D - GI Result Limit Level Result Rec mg/kg mg/kg mg/kg mg/kg % ND 20.0 8.00 82.4 47.2 20.0 50.0 94.5 6.77 8.00 84.6 Source: E307053-1 45.2 20.0 50.0 ND 90.4 6.63 8.00 83.2 83.2 Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4"Colspan="4">Colspan="4"Colspan="4">Colspan="4"Colspan="4">Colspan="4"Colspan	Project Name: RDX 17-25 Project Number: 01058-0007 Project Manager: Gilbert Moreno Nonhalogenated Organics by EPA 8015D - GRO Result Reporting Spike Source Rec Limits mg/kg mg/kg mg/kg mg/kg % % % ND 20.0 8.00 82.4 70-130 47.2 20.0 50.0 94.5 70-130 47.2 20.0 50.0 94.5 70-130 6.57 8.00 82.4 70-130 6.57 8.00 82.3 70-130 45.2 20.0 50.0 ND 90.4 70-130 6.65 8.00 83.2 70-130 6.65 8.00 83.2 70-130 44.9 20.0 50.0 ND 89.8 70-130	VProject Name: Project Number: O1058-0007 Project Manager:RDX 17-25 O1058-0007 Gilbert MorenoNonhalogenated Organics by EPA 8015D - GROResult mg/kgReporting Mg/kgSpike Mg/kgSource Mg/kgRec $%$ Rep $%$ No Prepared: 0ND Prepared: 0Spike MGSource Mg/kgRec Mg/kgRec $%$ Prepared: 0ND 6.59 20.0 8.00 82.4 $70-130$ Prepared: 0ND 47.2 6.77 20.0 50.0 94.5 $70-130$ Prepared: 0 47.2 6.77 20.0 50.0 94.5 $70-130$ Prepared: 0 45.2 6.65 8.00 83.2 $70-130$ Prepared: 0 45.2 6.65 8.00 83.2 $70-130$ Prepared: 0 44.9 20.0 50.0 ND 89.8 $70-130$ Prepared: 0	Result Reporting mg/kg Spike Source mg/kg Rec Mark Reporting mg/kg Spike Mark Source mg/kg Rec Mg/kg Reporting mg/kg Reporting mg/kg Spike Mg/kg Source Mark Rec Mg/kg Reporting Mg/kg Reporting Mg/kg Spike Mg/kg Source Mark Rec Mg/kg Reporting Mg/kg Reporting Mg/kg Spike Mg/kg Source Mg/kg Rec Mg/kg Reporting Mg

QC Summary Data

		QC D	u	ary Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:		RDX 17-25 01058-0007 Gilbert Moreno					Reported: 7/19/2023 3:57:29PM
	Nonh	alogenated Org	anics by	y EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2329005-BLK1)							Prepared: 0	7/17/23 A	analyzed: 07/17/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.0		50.0		112	50-200			
LCS (2329005-BS1)							Prepared: 0	7/17/23 A	analyzed: 07/17/23
Diesel Range Organics (C10-C28)	253	25.0	250		101	38-132			
Surrogate: n-Nonane	49.9		50.0		99 .7	50-200			
Matrix Spike (2329005-MS1)				Source: E	307053-	03	Prepared: 0	7/17/23 A	analyzed: 07/17/23
Diesel Range Organics (C10-C28)	250	25.0	250	ND	99.9	38-132			
Surrogate: n-Nonane	47.3		50.0		94.7	50-200			
Matrix Spike Dup (2329005-MSD1)				Source: E	307053-	03	Prepared: 0	7/17/23 A	analyzed: 07/17/23
Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	38-132	0.940	20	
Surrogate: n-Nonane	45.0		50.0		90.1	50-200			



QC Summary Data

		QU N	· u	i j Duu	4				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager	0	DX 17-25 1058-0007 ilbert Moreno					Reported: 7/19/2023 3:57:29PM
		Anions	by EPA 3	300.0/9056A	1				Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2328061-BLK1)							Prepared: 0	7/14/23 A	analyzed: 07/17/23
Chloride	ND	20.0							
LCS (2328061-BS1)							Prepared: 0	7/14/23 A	analyzed: 07/17/23
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2328061-MS1)				Source:	E307052-0	01	Prepared: 0	7/14/23 A	analyzed: 07/17/23
Chloride	1580	40.0	250	1280	117	80-120			
Matrix Spike Dup (2328061-MSD1)				Source:	E307052-0	01	Prepared: 0	7/14/23 A	analyzed: 07/17/23
Chloride	1590	40.0	250	1280	121	80-120	0.675	20	M2

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.



	2 •••••••		
WPX Energy - Carlsbad	Project Name:	RDX 17-25	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	07/19/23 15:57

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

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client: W	PX Energy Pe	rmian LLO	C.		1 Section	Bill To		1. 16		La	ab Us	e On	lv				TA	г	EPA P	rogram
	RDX 17-25					ttention: Jim Raley		Lah	MO				Numbe	- 00000	1D 2	2D T	3D	Standard	CWA	SDWA
	Aanager: Gilbe	ert More	10			ddress: 5315 Buena Vista Dr.		F	307	05	3	NID	58-00	07				5 day TAT		
	13000 W Cou			And the second		Attention: Jim RaleyLab WO#Address: 5315 Buena Vista Dr.E 307053City, State, Zip: Carlsbad, NM, 88220A					Analy	sis and l	Metho	d					RCRA	
	e, Zip_Odessa				-	hone: 575-885-7502		1	þ			Í		Τ	TT	T	1	- Series		
hone: (832) 541-7719)			E	Email: jim.raley@dvn.com												State		
mail: D	evon-team@e	techenv.	com	_		/0: 21181900		1	RO/O	1			0.0		NZ		_	NM CC	UT AZ	TX
ollected	d by: Edyte Ko	nan	-		Ir	cident ID: nAB1712952339	1.4			802	826	6010	30(1 1		ř			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC		Remarks	Page rogram SDWA RCRA
9:30	7/13/2023	S	1			FS11	J	4'							x					
9:40	7/13/2023	S	1			FS12	2	4'							X					
9:50	7/13/2023	S	1			FS13	3	4'							X					
							[1]													
							4.22											11		
															\uparrow					
						ne na sente a Soon vine partie de la constante de Sine de la L														
														1			-			essa Johnathiko e
Additior	al Instruction	is:	L	1				I	I		LI				1					
	the call of the second s	200420600370000000		of this sample. I ar be grounds for legal		hat tampering with or intentionally misla Sampled by:	belling the sample l	ocatior	٦,									eived on ice the c ess than 6 °C on su		pled or
Relinguish	ed/by: (Signature	:)	Date		•	Received by: (Signature) McUUL Cupu Ob	Date 7-13-	23	Time	filt	2	Rece	eived or	n ice:	Lal		e Onl	У		
Mia	ed by: (Signature	yall	Date	1. 22	700	Received by: (Signature)	Date	.23	Time	200		<u>T1</u>			T2			<u>T3</u>		
Relinquish	ed by: (Signature Gw Mi	NGGO	Date 7	13.23 Time	33	O auto Mar	- 7/14/2	23	Time	:3	5	AVG	Temp	°c	4	1 1				
	rix: S - Soil, Sd - Sol				21	0.1	Containe			_		_				_		and the second se		
Note: Sam	ples are discarde	d 30 days a	fter results	s are reported un	less othe	r arrangements are made. Hazardo	ous samples will be	e retui	ned t	o clier	nt or d	ispose	ed of at t	he clier	nt exper	nse. T	The re	port for the ar	alysis of the	above

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

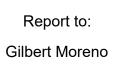
Client:	WPX Energy - Carlsbad Da	ate Received:	07/14/23	08:35	Work Order ID:	E307053
Phone:	(539) 573-4018 Da	ate Logged In:	07/13/23	15:50	Logged In By:	Alexa Michaels
Email:		le Date:	07/20/23	17:00 (4 day TAT)		
Chain o	of Custody (COC)					
	the sample ID match the COC?		Yes			
2. Does	the number of samples per sampling site location match	the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was t	he COC complete, i.e., signatures, dates/times, requested	l analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Commen	ts/Resolution
<u>Sample</u>	<u>Turn Around Time (TAT)</u>					
6. Did tl	he COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	Cooler					
7. Was a	a sample cooler received?		Yes			
8. If yes	s, was cooler received in good condition?		Yes			
9. Was t	he sample(s) received intact, i.e., not broken?		Yes			
10. Wer	e custody/security seals present?		No			
11. If ye	es, were custody/security seals intact?		NA			
12. Was	the sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re- minutes of sampling		Yes			
13. If no	o visible ice, record the temperature. Actual sample ter	nperature: 4°	С			
	Container	I · · · · ·				
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	he head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
	e appropriate volume/weight or number of sample containers	collected?	Yes			
Field La	abel					
	e field sample labels filled out with the minimum inform	ation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes	L		
	Collectors name?		Yes			
	Devenuention					
<u>Sample</u>	Preservation	muod?	Ma			
<u>Sample</u> 21. Doe	s the COC or field labels indicate the samples were prese	erved?	No Na			
<u>Sample</u> 21. Doe 22. Are	s the COC or field labels indicate the samples were prese sample(s) correctly preserved?		NA			
<u>Sample</u> 21. Doe 22. Are 24. Is la	s the COC or field labels indicate the samples were press sample(s) correctly preserved? b filteration required and/or requested for dissolved meta					
<u>Sample</u> 21. Doe 22. Are 24. Is la <u>Multipl</u>	s the COC or field labels indicate the samples were press sample(s) correctly preserved? b filteration required and/or requested for dissolved meta hase Sample Matrix.	ıls?	NA No			
<u>Sample</u> 21. Doe 22. Are 24. Is la <u>Multipl</u> 26. Doe	s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta hase Sample Matrix s the sample have more than one phase, i.e., multiphase?	ıls?	NA No No			
Sample 21. Doe 22. Are 24. Is la Multipl 26. Doe 27. If ye	s the COC or field labels indicate the samples were press sample(s) correctly preserved? b filteration required and/or requested for dissolved meta hase Sample Matrix s the sample have more than one phase, i.e., multiphase? es, does the COC specify which phase(s) is to be analyzed	ıls?	NA No			
Sample 21. Doe 22. Are 24. Is la <u>Multipl</u> 26. Doe 27. If ye Subcon	s the COC or field labels indicate the samples were press sample(s) correctly preserved? b filteration required and/or requested for dissolved meta hase Sample Matrix s the sample have more than one phase, i.e., multiphase? es, does the COC specify which phase(s) is to be analyzed tract Laboratory	ıls? d?	NA No No NA			
Sample 21. Doe 22. Are 24. Is la Multipl 26. Doe 27. If ye Subcon 28. Are	s the COC or field labels indicate the samples were press sample(s) correctly preserved? b filteration required and/or requested for dissolved meta hase Sample Matrix s the sample have more than one phase, i.e., multiphase? es, does the COC specify which phase(s) is to be analyzed	ıls? d?	NA No No	Subcontract Lab: NA		

B

Date

envirotech Inc.

Signature of client authorizing changes to the COC or sample disposition.





5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 17 FEDERAL # 36H

Work Order: E307054

Job Number: 01058-0007

Received: 7/14/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/19/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 7/19/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 17 FEDERAL # 36H Workorder: E307054 Date Received: 7/14/2023 8:35:00AM

Gilbert Moreno,





Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/14/2023 8:35:00AM, under the Project Name: RDX 17 FEDERAL # 36H.

The analytical test results summarized in this report with the Project Name: RDX 17 FEDERAL # 36H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com

Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	9
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Sample Summary									
WPX Energy - Carlsbad		Project Name:	RDX 17 FEDERAL # 36H	Reported:					
5315 Buena Vista Dr		Project Number:	01058-0007						
Carlsbad NM, 88220		Project Manager:	Gilbert Moreno	07/19/23 15:59					
Client Sample ID	Lab Sample ID	Matrix	Sampled Received	Container					

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH05 0.5'	E307054-01A	Soil	07/13/23	07/14/23	Glass Jar, 2 oz.
BH05 1'	E307054-02A	Soil	07/13/23	07/14/23	Glass Jar, 2 oz.



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	D.	ampic D	ala			
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Project Numb Project Manag	er: 010	X 17 FEDERAL # 58-0007 ert Moreno	36Н		Reported: 7/19/2023 3:59:00PM
		BH05 0.5'				
		E307054-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: IY		Batch: 2328065
Benzene	ND	0.0250	1	07/14/23	07/17/23	
Ethylbenzene	ND	0.0250	1	07/14/23	07/17/23	
Toluene	ND	0.0250	1	07/14/23	07/17/23	
o-Xylene	ND	0.0250	1	07/14/23	07/17/23	
o,m-Xylene	ND	0.0500	1	07/14/23	07/17/23	
Fotal Xylenes	ND	0.0250	1	07/14/23	07/17/23	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	07/14/23	07/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: IY		Batch: 2328065
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/14/23	07/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		81.8 %	70-130	07/14/23	07/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	mg/kg Analyst: KM		Batch: 2329005	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/23	07/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/23	07/17/23	
Surrogate: n-Nonane		97.5 %	50-200	07/17/23	07/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: BA		Batch: 2328061
Chloride	ND	200	10	07/14/23	07/18/23	



	0	ample D	ala			
WPX Energy - Carlsbad 5315 Buena Vista Dr	Project Name Project Numb	ber: 010	X 17 FEDERAL # 58-0007	Reported:		
Carlsbad NM, 88220	Project Mana	ger: Gilb	ert Moreno			7/19/2023 3:59:00PM
		BH05 1'				
		E307054-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2328065
Benzene	ND	0.0250	1	07/14/23	07/17/23	
Ethylbenzene	ND	0.0250	1	07/14/23	07/17/23	
oluene	ND	0.0250	1	07/14/23	07/17/23	
-Xylene	ND	0.0250	1	07/14/23	07/17/23	
o,m-Xylene	ND	0.0500	1	07/14/23	07/17/23	
Total Xylenes	ND	0.0250	1	07/14/23	07/17/23	
urrogate: 4-Bromochlorobenzene-PID		101 %	70-130	07/14/23	07/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	mg/kg Analyst: IY		Batch: 2328065	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/14/23	07/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.2 %	70-130	07/14/23	07/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2329005
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/23	07/17/23	
Dil Range Organics (C28-C36)	ND	50.0	1	07/17/23	07/17/23	
urrogate: n-Nonane		91.3 %	50-200	07/17/23	07/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2328061
Chloride	106	100	5	07/14/23	07/18/23	



QC Summary Data

		QU 5		ary Dut	u				
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		DX 17 FEDE	RAL # 36H				Reported:
Carlsbad NM, 88220		Project Manager:		ilbert Moreno	,				7/19/2023 3:59:00PM
		Volatile O	rganics	by EPA 802	21B				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2328065-BLK1)							Prepared: 0	7/14/23 A	nalyzed: 07/17/23
Benzene	ND	0.0250					1		,
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.68	0.0250	8.00		96.0	70-130			
LCS (2328065-BS1)							Prepared: 0	7/14/23 A	nalyzed: 07/17/23
Benzene	4.82	0.0250	5.00		96.5	70-130			
Ethylbenzene	4.71	0.0250	5.00		94.2	70-130			
Toluene	4.86	0.0250	5.00		97.1	70-130			
o-Xylene	4.85	0.0250	5.00		97.1	70-130			
p,m-Xylene	9.77	0.0500	10.0		97.7	70-130			
Total Xylenes	14.6	0.0250	15.0		97.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.84		8.00		98.0	70-130			
Matrix Spike (2328065-MS1)				Source:	E307053-0	1	Prepared: 0	7/14/23 A	nalyzed: 07/17/23
Benzene	5.06	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.93	0.0250	5.00	ND	98.6	61-133			
Toluene	5.09	0.0250	5.00	ND	102	61-130			
o-Xylene	5.09	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.91		8.00		98.9	70-130			
Matrix Spike Dup (2328065-MSD1)				Source:	E307053-0	1	Prepared: 0	7/14/23 A	nalyzed: 07/17/23
Benzene	5.00	0.0250	5.00	ND	100	54-133	1.20	20	
Ethylbenzene	4.89	0.0250	5.00	ND	97.7	61-133	0.905	20	
Toluene	5.03	0.0250	5.00	ND	101	61-130	1.15	20	
o-Xylene	5.04	0.0250	5.00	ND	101	63-131	1.03	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	1.10	20	
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131	1.07	20	
Surrogate: 4-Bromochlorobenzene-PID	7.97		8.00		99.6	70-130			
Sarrogate. , Dromoentorobenzene 11D	1.21								



QC Summary Data

		$\chi \cup \gamma$		ary Data	~				
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		DX 17 FEDEF 1058-0007	RAL # 36H	ł			Reported:
Carlsbad NM, 88220		Project Manager:	C	ilbert Moreno					7/19/2023 3:59:00PM
	Nor	nhalogenated C	rganics	by EPA 801	15D - GI	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2328065-BLK1)							Prepared: 0	7/14/23 A	nalyzed: 07/17/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.59		8.00		82.4	70-130			
LCS (2328065-BS2)							Prepared: 0	7/14/23 A	nalyzed: 07/17/23
Gasoline Range Organics (C6-C10)	47.2	20.0	50.0		94.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.77		8.00		84.6	70-130			
Matrix Spike (2328065-MS2)				Source:	E307053-	01	Prepared: 0	7/14/23 A	nalyzed: 07/17/23
Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.65		8.00		83.2	70-130			
Matrix Spike Dup (2328065-MSD2)				Source:	E307053-	01	Prepared: 0	7/14/23 A	nalyzed: 07/17/23
Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.8	70-130	0.677	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.72		8.00		83.9	70-130			



QC Summary Data

		QU N		ary Date					
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		DX 17 FEDE 1058-0007	RAL # 36H	I			Reported:
Carlsbad NM, 88220		Project Manager:	C	ilbert Moreno					7/19/2023 3:59:00PM
	Nonha	alogenated Org	anics by	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2329005-BLK1)							Prepared: 0	7/17/23 A	Analyzed: 07/17/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.0		50.0		112	50-200			
LCS (2329005-BS1)							Prepared: 0	7/17/23 A	Analyzed: 07/17/23
Diesel Range Organics (C10-C28)	253	25.0	250		101	38-132			
Surrogate: n-Nonane	49.9		50.0		99.7	50-200			
Matrix Spike (2329005-MS1)				Source:	E307053-	03	Prepared: 0	7/17/23 A	Analyzed: 07/17/23
Diesel Range Organics (C10-C28)	250	25.0	250	ND	99.9	38-132			
Surrogate: n-Nonane	47.3		50.0		94.7	50-200			
Matrix Spike Dup (2329005-MSD1)				Source:	E307053-(03	Prepared: 0	7/17/23 A	Analyzed: 07/17/23
Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	38-132	0.940	20	
Surrogate: n-Nonane	45.0		50.0		90.1	50-200			



QC Summary Data

			-	J					
WPX Energy - Carlsbad		Project Name:		RDX 17 FEDEI	RAL # 36H				Reported:
5315 Buena Vista Dr		Project Number:		01058-0007					
Carlsbad NM, 88220		Project Manager	:	Gilbert Moreno					7/19/2023 3:59:00PM
		Anions	by EPA	300.0/9056	١				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2328061-BLK1)							Prepared: 0	7/14/23 A	Analyzed: 07/17/23
Chloride	ND	20.0							
LCS (2328061-BS1)							Prepared: 0	7/14/23 /	Analyzed: 07/17/23
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2328061-MS1)				Source:	E307052-0)1	Prepared: 0	7/14/23 A	Analyzed: 07/17/23
Chloride	1580	40.0	250	1280	117	80-120			
Matrix Spike Dup (2328061-MSD1)				Source:	E307052-0)1	Prepared: 0	7/14/23 A	Analyzed: 07/17/23
Chloride	1590	40.0	250	1280	121	80-120	0.675	20	M2

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.



WPX Energy - Carlsbad	Project Name:	RDX 17 FEDERAL # 36H	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	07/19/23 15:59

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

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released

	/PX Energy Pe					Bill To				La	ab Us	e On	ly				TA	Т	EPA P	rogram
	RDX 17 FEDER					Attention: Jim Raley	014	Lab	WO	†		Job	Numb	er	1D	2D	3D	Standard	CWA	SDWA
	Aanager: Gilbe				CHARLES AND	Address: 5315 Buena Vista Dr.		E:	307	05				0007				5 day TAT		
	13000 W Cou		and the second se			City, State, Zip: Carlsbad, NM, 88	3220			_	A	Analy	sis and	Metho	d					RCRA
	e, Zip_Odessa 832) 541-7719		5			Phone: 575-885-7502			0 by											
	evon-team@e		om			Email: jim.raley@dvn.com		-	/OR									hund of	State	
	by: Edyte Ko		com			WO: 21181922 Incident ID: NRM2017643736		1	DRC	021	260	10	300.0		WN		¥	NIVI CO	D UT AZ	TX
Time			No. of			Incident ID. NRM2017643736	Lab	h(ft.)	3RO/	by 8	by 8.	ls 60	ide 3		S		U			
Sampled	Date Sampled	Matrix	Containers	Sample ID)		Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride :		BGDOC		GDOC		Remarks	Page rogram SDWA RCRA
11:00	7/13/2023	S	1			BH05		0.5							x					
11:10	7/13/2023	S	1			BH05	2	1'							х					
												_				-				
							No. Constant	-	-					_		-	+			
							(Alexandre		-					_						
Western Coloren			-				_	-												
						•								_						
ddition	al Instruction	s:																		
ate or time	of collection is con	sidered frau				that tampering with or intentionally mislabe Sampled by:	elling the sample l	ocatio	٦,									ceived on ice the c ess than 6 °C on si	134 V	pled or
elinquish Hot	ed by: (Signature))	Date 07/13	3/2023	Time 14:20	Received by: (Signature) McCulle Gunyel	L 7-13-	23	Time	120		Rece	eived c	n ice:	-	Us N	e Onl	y		
Much	ed by: (Signatigre)	inth	Date 7-	13-23	Time 1700		Date 17.13	25	Time	200		T1			T2			<u>T3</u>		
And	ed by: (Signature)	50	Date	13.73	Time	Received by: Brenaturel	_ Date	23	Time 8	3	~	AVG	Temp	°c L	1					
mple Mat	rix: S - Soil, Sd - Sol	id, Sg - Sludg	e, A - Aqueo	us, O - Other			Containe	r Typ	e: g -	glass,	-	10000000000		and the second se	er gla	ss, v	- VOA			
ote: Sam	oles are discarded	d 30 days at	fter results	are reporte	d unless oth	er arrangements are made. Hazardous													alysis of the	above

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

	WPX Energy - Carlsbad D	ate Received:	07/14/23	08:35		Work Order ID:	E307054
Phone:	(539) 573-4018 D	ate Logged In:	07/13/23	15:52		Logged In By:	Alexa Michaels
Email:		ue Date:	07/20/23	17:00 (4 day TAT)			
Chain o	of Custody (COC)						
1. Does	the sample ID match the COC?		Yes				
2. Does	the number of samples per sampling site location match	the COC	Yes				
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Co	ourier		
4. Was t	the COC complete, i.e., signatures, dates/times, requested	d analyses?	Yes				
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes			Commen	ts/Resolution
<u>Sample</u>	<u>Turn Around Time (TAT)</u>						
6. Did tl	he COC indicate standard TAT, or Expedited TAT?		Yes				
Sample	Cooler						
7. Was a	a sample cooler received?		Yes				
8. If yes	s, was cooler received in good condition?		Yes				
9. Was t	the sample(s) received intact, i.e., not broken?		Yes				
10. Wer	e custody/security seals present?		No				
11. If ye	es, were custody/security seals intact?		NA				
12. Was	the sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re-		Yes				
13 If no	minutes of sampling o visible ice, record the temperature. Actual sample te	mnerature: 4º	C				
		inperature. <u>1</u>	<u> </u>				
	<u>Container</u> aqueous VOC samples present?		No				
	VOC samples collected in VOA Vials?		NA				
	he head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	non-VOC samples collected in the correct containers?		Yes				
	e appropriate volume/weight or number of sample container	s collected?	Yes				
	e field sample labels filled out with the minimum inform	nation:					
Field La	Sample ID?		Yes				
Field La 20. Wer			Vac	L			
Field La 20. Wer	Date/Time Collected?		Yes				
Field La 20. Wer	Collectors name?		Yes				
Field La 20. Wer Sample	Collectors name? Preservation	am rad?	Yes				
Field La 20. Wer Sample 21. Doe	Collectors name? Preservation is the COC or field labels indicate the samples were pres	erved?	Yes No				
Field La 20. Wer Sample 21. Doe 22. Are	Collectors name? Preservation as the COC or field labels indicate the samples were pres sample(s) correctly preserved?		Yes No NA				
Field L: 20. Wer Sample 21. Doe 22. Are 24. Is la	Collectors name? Preservation is the COC or field labels indicate the samples were pres sample(s) correctly preserved? ib filteration required and/or requested for dissolved met		Yes No				
Field L: 20. Wer Sample 21. Doe 22. Are 24. Is la Multipl	Collectors name? Preservation is the COC or field labels indicate the samples were pres sample(s) correctly preserved? ib filteration required and/or requested for dissolved met hase Sample Matrix	als?	Yes No NA No				
Sample 21. Doe 22. Are 24. Is la Multipl 26. Doe	Collectors name? Preservation as the COC or field labels indicate the samples were pres sample(s) correctly preserved? ab filteration required and/or requested for dissolved met hase Sample Matrix as the sample have more than one phase, i.e., multiphase?	als?	Yes No NA No				
Field La 20. Wer Sample 21. Doe 22. Are 24. Is la Multipl 26. Doe 27. If ye	Collectors name? Preservation is the COC or field labels indicate the samples were press sample(s) correctly preserved? ib filteration required and/or requested for dissolved methase hase Sample Matrix is the sample have more than one phase, i.e., multiphase? es, does the COC specify which phase(s) is to be analyzed	als?	Yes No NA No				
Sample 21. Doe 22. Are 24. Is la Multipl 26. Doe 27. If ye Subcon	Collectors name? Preservation is the COC or field labels indicate the samples were press sample(s) correctly preserved? ib filteration required and/or requested for dissolved met hase Sample Matrix is the sample have more than one phase, i.e., multiphase? es, does the COC specify which phase(s) is to be analyzed tract Laboratory	als? ? :d?	Yes No No No NA				
Sample 21. Doe 22. Are 24. Is la Multipl 26. Doe 27. If ye Subcon 28. Are	Collectors name? Preservation is the COC or field labels indicate the samples were press sample(s) correctly preserved? ib filteration required and/or requested for dissolved methase hase Sample Matrix is the sample have more than one phase, i.e., multiphase? es, does the COC specify which phase(s) is to be analyzed	als? , , , ,	Yes No NA No	Subcontract Lab:			

Signature of client authorizing changes to the COC or sample disposition.

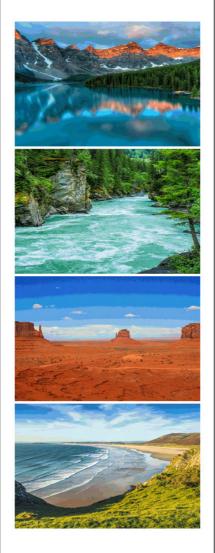


envirotech Inc.

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Report to: Gilbert Moreno



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 17-25

Work Order: E307055

Job Number: 01058-0007

Received: 7/14/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/19/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 7/19/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 17-25 Workorder: E307055 Date Received: 7/14/2023 8:35:00AM

Gilbert Moreno,



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Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/14/2023 8:35:00AM, under the Project Name: RDX 17-25.

The analytical test results summarized in this report with the Project Name: RDX 17-25 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com

Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

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		Sample Sum	mary		
WPX Energy - Carlsbad		Project Name:	RDX 17-25		Depented
5315 Buena Vista Dr		Project Number:	01058-0007		Reported:
Carlsbad NM, 88220		Project Manager:	Gilbert Moreno		07/19/23 16:00
Client Semple ID	Lab Sample ID	Matrix	Compled	Received	Container
Client Sample ID			Sampled	Received	Container



	5	ampic D	ata			
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Project Numb Project Manag	er: 0103	K 17-25 58-0007 ert Moreno			Reported: 7/19/2023 4:00:43PM
		SW06 0-4'				
		E307055-01				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: IY		Batch: 2328065
Benzene	ND	0.0250	1	07/14/23	07/17/23	
Ethylbenzene	ND	0.0250	1	07/14/23	07/17/23	
Toluene	ND	0.0250	1	07/14/23	07/17/23	
p-Xylene	ND	0.0250	1	07/14/23	07/17/23	
o,m-Xylene	ND	0.0500	1	07/14/23	07/17/23	
Fotal Xylenes	ND	0.0250	1	07/14/23	07/17/23	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	07/14/23	07/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2328065
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/14/23	07/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		81.7 %	70-130	07/14/23	07/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2329005
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/23	07/17/23	
Dil Range Organics (C28-C36)	ND	50.0	1	07/17/23	07/17/23	
Surrogate: n-Nonane		94.9 %	50-200	07/17/23	07/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2328061
Chloride	ND	100	5	07/14/23	07/18/23	

Sample Data



QC Summary Data

	Project Name:	RI	OX 17-25					
	Project Number:	01	058-0007					Reported:
	Project Manager:		lbert Moreno					7/19/2023 4:00:43PM
	Volatile O	rganics b	y EPA 802	1B				Analyst: IY
	Reporting	Spike	Source		Rec	DDD	RPD	
Result mg/kg	mg/kg	mg/kg	mg/kg	Rec %	%	%	Limit %	Notes
						Prepared: 0	7/14/23 A	nalvzed: 07/17/23
ND	0.0250					rieparea. o	//1// <i>20</i> //1	huly200. 07/17/25
	0.0250	8.00		96.0	70-130			
7.00								
						Prepared: 0	7/14/23 A	nalyzed: 07/17/23
4.82	0.0250	5.00		96.5	70-130			
4.71	0.0250	5.00		94.2	70-130			
4.86	0.0250	5.00		97.1	70-130			
4.85	0.0250	5.00		97.1	70-130			
9.77	0.0500	10.0		97.7	70-130			
14.6	0.0250	15.0		97.5	70-130			
7.84		8.00		98.0	70-130			
			Source:	E307053-(01	Prepared: 0	7/14/23 A	nalyzed: 07/17/23
5.06	0.0250	5.00	ND	101	54-133			
4.93	0.0250	5.00	ND	98.6	61-133			
5.09	0.0250	5.00	ND	102	61-130			
5.09	0.0250	5.00	ND	102	63-131			
10.2	0.0500	10.0	ND	102	63-131			
15.3	0.0250	15.0	ND	102	63-131			
7.91		8.00		98.9	70-130			
			Source:	E307053-(01	Prepared: 0	7/14/23 A	nalyzed: 07/17/23
5.00	0.0250	5.00	ND	100	54-133	1.20	20	
4.89	0.0250	5.00	ND	97.7	61-133	0.905	20	
5.03	0.0250	5.00	ND	101	61-130	1.15	20	
5.04	0.0250	5.00	ND	101	63-131	1.03	20	
10.1	0.0500	10.0	ND	101	63-131	1.10	20	
15.2	0.0250	15.0	ND	101	63-131	1.07	20	
	ND ND ND ND ND 7.68 4.82 4.71 4.86 4.85 9.77 14.6 7.84 5.06 4.93 5.09 5.09 5.09 10.2 15.3 7.91 5.00 4.89 5.00 4.89 5.03 5.04 10.1	Result mg/kg Reporting Limit mg/kg ND 0.0250 A85 0.0250 4.82 0.0250 4.85 0.0250 4.86 0.0250 4.85 0.0250 4.86 0.0250 5.06 0.0250 5.09 0.0250 5.09 0.0250 5.09 0.0250 5.09 0.0250 5.09 0.0250 5.09 0.0250 5.09 0.0250 5.09 0.0250 7.91	Result mg/kg Reporting Limit mg/kg Spike Level mg/kg ND 0.0250 7.68 8.00 4.82 0.0250 5.00 4.85 0.0250 5.00 4.85 0.0250 5.00 4.85 0.0250 5.00 4.83 0.0250 5.00 4.84 0.0250 5.00 5.06 0.0250 5.00 5.09 0.0250 5.00 5.09 0.0250 5.00 5.09 0.0250 5.00 10.2 0.0500 10.0 15.3 0.0250 5.00 <	Result mg/kg Reporting Limit mg/kg Spike Level mg/kg Source Result mg/kg ND 0.0250 mg/kg mg/kg A82 0.0250 5.00 mg/kg 4.82 0.0250 5.00 mg/kg 4.82 0.0250 5.00 mg/kg 4.85 0.0250 5.00 mg/kg 7.68 8.00 mg/kg mg/kg 4.85 0.0250 5.00 mg/kg 7.84 8.00 mg/kg mg/kg 5.06 0.0250 5.00 ND 4.93 0.0250 5.00 ND 5.09 0.0250 5.00 ND 10.2 0.0500 10.0 ND 15.3 0.0250 5.00 ND 15.3	Result mg/kg Limit mg/kg Level mg/kg Result mg/kg Rec mg/kg Rec mg/kg	Result mg/kg Reporting Limit Spike Level Source Result Rec Rec Rec Limits ND 0.0250 mg/kg % % ND 0.0250 % % % 7.68 8.00 96.0 70-130 4.82 0.0250 5.00 97.1 70-130 4.85 0.0250 5.00 97.7 70-130 4.85 0.0250 5.00 97.7 70-130 4.46 0.0250 5.00 97.7 70-130 7.84 8.00 98.0 70-130 7.84 8.00 98.0 70-130 5.06 0.0250 5.00 ND 101 54-133 4.93 0.0250 5.00 ND 102 </td <td>Result Reporting Limit Spike Level Source Result Rec Result Rec Limits RPD mg/kg mg/kg mg/kg % % % % ND 0.0250 mg/kg % % % % ND 0.0250 ND 0.0250 Prepared: 0 ND 0.0250 ND 0.0250 Prepared: 0 ND 0.0250 ND 0.0250 Prepared: 0 7.68 8.00 96.0 70-130 Prepared: 0 4.82 0.0250 5.00 96.5 70-130 4.84 0.0250 5.00 97.1 70-130 4.85 0.0250 5.00 97.7 70-130 4.86 0.0250 5.00 97.7 70-130 7.84 8.00 98.0 70-130 7.84 8.00 98.0 70-130 4.93 0.0250 5.00 ND 101 54-133 5.09 0.0250</td> <td>Reporting mg/kg Spik Level mg/kg Source Result mg/kg Rec Result mg/kg Rec mg/kg Rec mg/kg</td>	Result Reporting Limit Spike Level Source Result Rec Result Rec Limits RPD mg/kg mg/kg mg/kg % % % % ND 0.0250 mg/kg % % % % ND 0.0250 ND 0.0250 Prepared: 0 ND 0.0250 ND 0.0250 Prepared: 0 ND 0.0250 ND 0.0250 Prepared: 0 7.68 8.00 96.0 70-130 Prepared: 0 4.82 0.0250 5.00 96.5 70-130 4.84 0.0250 5.00 97.1 70-130 4.85 0.0250 5.00 97.7 70-130 4.86 0.0250 5.00 97.7 70-130 7.84 8.00 98.0 70-130 7.84 8.00 98.0 70-130 4.93 0.0250 5.00 ND 101 54-133 5.09 0.0250	Reporting mg/kg Spik Level mg/kg Source Result mg/kg Rec Result mg/kg Rec mg/kg Rec mg/kg



QC Summary Data

		QC D		il y Data	•				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	DX 17-25 1058-0007 ilbert Moreno					Reported: 7/19/2023 4:00:43PM
	No	nhalogenated O	rganics	by EPA 801	5D - Gl	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	N
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2328065-BLK1)							Prepared: 0	7/14/23 A	Analyzed: 07/17/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.59		8.00		82.4	70-130			
LCS (2328065-BS2)							Prepared: 0	7/14/23 A	Analyzed: 07/17/23
Gasoline Range Organics (C6-C10)	47.2	20.0	50.0		94.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.77		8.00		84.6	70-130			
Matrix Spike (2328065-MS2)				Source: I	2307053-0	01	Prepared: 0	7/14/23 A	Analyzed: 07/17/23
Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.65		8.00		83.2	70-130			
Matrix Spike Dup (2328065-MSD2)				Source: I	2307053-0	01	Prepared: 0	7/14/23 A	Analyzed: 07/17/23
Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.8	70-130	0.677	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.72		8.00		83.9	70-130			



QC Summary Data

		QC D	u 111111	ary Data	•				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	C	RDX 17-25)1058-0007 Gilbert Moreno					Reported: 7/19/2023 4:00:43PM
	Nonh	alogenated Org	anics by	v EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2329005-BLK1)							Prepared: 0	7/17/23 A	analyzed: 07/17/23
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	56.0		50.0		112	50-200			
LCS (2329005-BS1)							Prepared: 0	7/17/23 A	analyzed: 07/17/23
Diesel Range Organics (C10-C28)	253	25.0	250		101	38-132			
Surrogate: n-Nonane	49.9		50.0		99 .7	50-200			
Matrix Spike (2329005-MS1)				Source: F	2307053-	03	Prepared: 0	7/17/23 A	analyzed: 07/17/23
Diesel Range Organics (C10-C28)	250	25.0	250	ND	99.9	38-132			
Surrogate: n-Nonane	47.3		50.0		94.7	50-200			
Matrix Spike Dup (2329005-MSD1)				Source: F	2307053-	03	Prepared: 0	7/17/23 A	analyzed: 07/17/23
Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	38-132	0.940	20	
Surrogate: n-Nonane	45.0		50.0		90.1	50-200			



QC Summary Data

					-				
WPX Energy - Carlsbad		Project Name:	R	DX 17-25					Reported:
5315 Buena Vista Dr		Project Number:	0	1058-0007					
Carlsbad NM, 88220		Project Manager:	C	ilbert Moreno					7/19/2023 4:00:43PM
		Anions l	by EPA	300.0/9056A					Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2328061-BLK1)							Prepared: 0	7/14/23	Analyzed: 07/17/23
Chloride	ND	20.0							
LCS (2328061-BS1)							Prepared: 0	7/14/23	Analyzed: 07/17/23
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2328061-MS1)				Source:	E307052-(01	Prepared: 0	7/14/23	Analyzed: 07/17/23
Chloride	1580	40.0	250	1280	117	80-120			
Matrix Spike Dup (2328061-MSD1)				Source:	E307052-(01	Prepared: 0	7/14/23	Analyzed: 07/17/23
Chloride	1590	40.0	250	1280	121	80-120	0.675	20	M2

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.



WPX Energy - Carlsb	ad I	Project Name:	RDX 17-25	
5315 Buena Vista Dr	Ι	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	I	Project Manager:	Gilbert Moreno	07/19/23 16:00

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

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Client: W	PX Energy Per	rmian LLC	2.			Bill To		Lab Use Only						TAT				EPA Program		
	RDX 17-25			14 C		ention: Jim Raley		Lah	MOt					ər	1D 2D 3D Standard			CWA	SDWA	
	Aanager: Gilbe	ert Morer	10		Add	lress: 5315 Buena Vista Dr.		F	30-	ins	55	nin	58.1	er 2007	10 2			5 day TAT	CWA	JUWA
	13000 W Cou					, State, Zip: Carlsbad, NM, 8822	20				4	Analy	sis and	Metho	d L	L				RCRA
	e, Zip_Odessa					ne: 575-885-7502		1	à			1	1	1	TT	Т	T			
	832) 541-7719				10000018	ail: jim.raley@dvn.com		1	RO										State	
mail: De	evon-team@e	techenv.	com			: 21181900	21 21		21	-		0		WN			NM CO	UT AZ	TX	
ollected	by: Edyte Kor	nan				dent ID: nAB1712952339	4.	1	J/DF	802	3260	010	300.0		1 1		¥			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride		BGDOC		GDOC		Remarks	
10:50	7/13/2023	S	1			SW06	1	0-4							x					Page Ogram SDWA RCRA
ddition	al Instruction	s:																		
late or time	e of collection is cor	nsidered frau		pe grounds for le	egal action.	tampering with or intentionally mislabellin Sampled by:	g the sample	locatio	-					72	avg temp	above	0 but les	eived on ice the day as than 6 °C on sub		pled or
-ter	ed by: (Signature ed by: (Signature			3/2023 1	4:20 me	Received by: (Signature) MULLL (MULL) Received by: (Signature)	1-12	23	Time 14 Time	120		Rece	eived o	n ice:			Only			
Mic	ed by: (Signature	yalle	- 7- Date	13-27 T	1700	Received by (Signature)	7.10 Date/	S.L.	Time	60		<u>T1</u>			<u>T2</u>			<u></u> <u>T3</u>		
MA	trix: S - Soil, Sd - Sol	1950	te, A - Aque	13.13 ·	2330	Carth Mour	7/14/2 Containe	23 r Typ	8	-3		1222 2021	Temp	1		5. V -	VOA		an la chu	
					unless other a	rrangements are made. Hazardous sa								the clien	texpen	se. T	he rep	ort for the ana	lysis of the	above

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Client:	WPX Energy - Carlsbad D	ate Received:	07/14/23	08:35	Wor	k Order ID:	E307055
Phone:	(539) 573-4018 D	ate Logged In:	07/13/23	15:54	Log	ged In By:	Alexa Michaels
Email:		ue Date:	07/20/23	17:00 (4 day TAT)	-		
Chain o	of Custody (COC)						
1. Does	the sample ID match the COC?		Yes				
2. Does	the number of samples per sampling site location match	the COC	Yes				
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Cou	<u>irier</u>		
4. Was t	the COC complete, i.e., signatures, dates/times, requested	d analyses?	Yes				
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes	_		Comment	ts/Resolution
<u>Sample</u>	<u> Turn Around Time (TAT)</u>						
6. Did tl	he COC indicate standard TAT, or Expedited TAT?		Yes				
Sample	<u>Cooler</u>						
7. Was a	a sample cooler received?		Yes				
8. If yes	s, was cooler received in good condition?		Yes				
9. Was t	the sample(s) received intact, i.e., not broken?		Yes				
10. Wer	e custody/security seals present?		No				
11. If ye	es, were custody/security seals intact?		NA				
12. Was	the sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re- minutes of sampling		Yes				
13. If no	o visible ice, record the temperature. Actual sample ter	mperature: 4°	С				
	Container						
	aqueous VOC samples present?		No				
	VOC samples collected in VOA Vials?		NA				
	he head space less than 6-8 mm (pea sized or less)?		NA				
17. Was	s a trip blank (TB) included for VOC analyses?		NA				
18. Are	non-VOC samples collected in the correct containers?		Yes				
19. Is the	e appropriate volume/weight or number of sample container	s collected?	Yes				
Field La	abel						
20. Wer	re field sample labels filled out with the minimum inform	nation:					
	Sample ID?		Yes				
	Date/Time Collected?		Yes				
	Collectors name?		Yes				
	e Preservation the COC or field labels indicate the samples were prese	erved?	No				
	sample(s) correctly preserved?		NO				
	b filteration required and/or requested for dissolved meta	als?	No				
24. IS IA		•	110				
	hase Sample Matrix_ es the sample have more than one phase, i.e., multiphase?	,	NT				
<u>Multipl</u>			No NA				
<u>Multipl</u> 26. Doe							
<u>Multipl</u> 26. Doe 27. If ye	es, does the COC specify which phase(s) is to be analyze	a <i>?</i>	INA				
Multipl 26. Doe 27. If ye Subcon	es, does the COC specify which phase(s) is to be analyze tract Laboratory						
<u>Multiph</u> 26. Doe 27. If ye <u>Subcon</u> 28. Are	es, does the COC specify which phase(s) is to be analyze	2	No NA	Subcontract Lab: N			

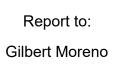
Date



envirotech Inc.

Signature of client authorizing changes to the COC or sample disposition.

•





5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 17-25

Work Order:	E307056

Job Number: 01058-0007

Received: 7/14/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/19/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 7/19/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 17-25 Workorder: E307056 Date Received: 7/14/2023 8:35:00AM

Gilbert Moreno,



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Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/14/2023 8:35:00AM, under the Project Name: RDX 17-25.

The analytical test results summarized in this report with the Project Name: RDX 17-25 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com

Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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*		Sample Sum	mary		0
WPX Energy - Carlsbad		Project Name:	RDX 17-25		Demontada
5315 Buena Vista Dr		Project Number:	01058-0007		Reported:
Carlsbad NM, 88220		Project Manager:	Gilbert Moreno		07/19/23 16:04
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS15 4'	E307056-01A	Soil	07/13/23	07/14/23	Glass Jar, 2 oz.



		ampic D				
WPX Energy - Carlsbad	Project Name:		K 17-25			
5315 Buena Vista Dr	Project Numbe		58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			7/19/2023 4:04:36PM
		FS15 4'				
		E307056-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	/st: IY		Batch: 2328065
Benzene	ND	0.0250	1	07/14/23	07/17/23	
Ethylbenzene	ND	0.0250	1	07/14/23	07/17/23	
Toluene	ND	0.0250	1	07/14/23	07/17/23	
o-Xylene	ND	0.0250	1	07/14/23	07/17/23	
o,m-Xylene	ND	0.0500	1	07/14/23	07/17/23	
Total Xylenes	ND	0.0250	1	07/14/23	07/17/23	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	07/14/23	07/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: IY		Batch: 2328065
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/14/23	07/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.0 %	70-130	07/14/23	07/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	/st: KM		Batch: 2329005
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/23	07/17/23	
Dil Range Organics (C28-C36)	ND	50.0	1	07/17/23	07/17/23	
Surrogate: n-Nonane		95.1 %	50-200	07/17/23	07/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: BA		Batch: 2328061
Chloride	251	20.0	1	07/14/23	07/18/23	

Sample Data



QC Summary Data

		QU DI	<i>u</i>	ing Dun	4				
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		DX 17-25 1058-0007					Reported:
Carlsbad NM, 88220		Project Manager:		ilbert Moreno					7/19/2023 4:04:36PM
		Volatile O	rganics l	by EPA 802	1B				Analyst: IY
		Reporting	Spike	Source		Rec		RPD	,
Analyte	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2328065-BLK1)							Prepared: 0	7/14/23	Analyzed: 07/17/23
Benzene	ND	0.0250							· ·
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.68	0.0200	8.00		96.0	70-130			
LCS (2328065-BS1)							Prepared: 0	7/14/23	Analyzed: 07/17/23
Benzene	4.82	0.0250	5.00		96.5	70-130			
Ethylbenzene	4.71	0.0250	5.00		94.2	70-130			
Toluene	4.86	0.0250	5.00		97.1	70-130			
o-Xylene	4.85	0.0250	5.00		97.1	70-130			
p,m-Xylene	9.77	0.0500	10.0		97.7	70-130			
Total Xylenes	14.6	0.0250	15.0		97.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.84		8.00		98.0	70-130			
Matrix Spike (2328065-MS1)				Source:	E307053-(01	Prepared: 0	7/14/23	Analyzed: 07/17/23
Benzene	5.06	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.93	0.0250	5.00	ND	98.6	61-133			
Toluene	5.09	0.0250	5.00	ND	102	61-130			
o-Xylene	5.09	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.91		8.00		98.9	70-130			
Matrix Spike Dup (2328065-MSD1)				Source:	E307053-(01	Prepared: 0	7/14/23	Analyzed: 07/17/23
Benzene	5.00	0.0250	5.00	ND	100	54-133	1.20	20	
Ethylbenzene	4.89	0.0250	5.00	ND	97.7	61-133	0.905	20	
Toluene	5.03	0.0250	5.00	ND	101	61-130	1.15	20	
		0.0250	5.00	ND	101	63-131	1.03	20	
o-Xylene	5.04	0.0230	5100						
o-Xylene p,m-Xylene	5.04 10.1	0.0230	10.0	ND	101	63-131	1.10	20	
•						63-131 63-131	1.10 1.07	20 20	



QC Summary Data

		QU DI		ary Data	•				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	RDX 17-25 1058-0007 Gilbert Moreno					Reported: 7/19/2023 4:04:36PM
Calisbau IVIVI, 88220									119/2025 4.04.501 W
	No	nhalogenated O	rganics	by EPA 801	5D - GI	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2328065-BLK1)							Prepared: 0	7/14/23 A	analyzed: 07/17/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.59		8.00		82.4	70-130			
LCS (2328065-BS2)							Prepared: 0	7/14/23 A	analyzed: 07/17/23
Gasoline Range Organics (C6-C10)	47.2	20.0	50.0		94.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.77		8.00		84.6	70-130			
Matrix Spike (2328065-MS2)				Source: F	2307053-	01	Prepared: 0	7/14/23 A	analyzed: 07/17/23
Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.65		8.00		83.2	70-130			
Matrix Spike Dup (2328065-MSD2)				Source: H	2307053-	01	Prepared: 0	7/14/23 A	analyzed: 07/17/23
Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.8	70-130	0.677	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.72		8.00		83.9	70-130			

QC Summary Data

		QU DI		ing Date	•				
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		DX 17-25 1058-0007					Reported:
Carlsbad NM, 88220		Project Manager:	G	ilbert Moreno					7/19/2023 4:04:36PM
	Nonh	alogenated Org	anics by	EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2329005-BLK1)							Prepared: 0	7/17/23 A	nalyzed: 07/17/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.0		50.0		112	50-200			
LCS (2329005-BS1)							Prepared: 0	7/17/23 A	nalyzed: 07/17/23
Diesel Range Organics (C10-C28)	253	25.0	250		101	38-132			
Surrogate: n-Nonane	49.9		50.0		99.7	50-200			
Matrix Spike (2329005-MS1)				Source: l	E307053-	03	Prepared: 0	7/17/23 A	nalyzed: 07/17/23
Diesel Range Organics (C10-C28)	250	25.0	250	ND	99.9	38-132			
Surrogate: n-Nonane	47.3		50.0		94.7	50-200			
Matrix Spike Dup (2329005-MSD1)				Source: l	E 307053 -	03	Prepared: 0	7/17/23 A	nalyzed: 07/17/23
Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	38-132	0.940	20	
Surrogate: n-Nonane	45.0		50.0		90.1	50-200			



QC Summary Data

		· ·		J					
WPX Energy - Carlsbad		Project Name:		DX 17-25					Reported:
5315 Buena Vista Dr		Project Number:		1058-0007					
Carlsbad NM, 88220		Project Manager:	G	ilbert Moreno					7/19/2023 4:04:36
		Anions	by EPA	300.0/9056A	1				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2328061-BLK1)							Prepared: 0	7/14/23	Analyzed: 07/17/23
Chloride	ND	20.0							
LCS (2328061-BS1)							Prepared: 0	7/14/23	Analyzed: 07/17/23
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2328061-MS1)				Source:	E307052-(01	Prepared: 0	7/14/23	Analyzed: 07/17/23
Chloride	1580	40.0	250	1280	117	80-120			
Matrix Spike Dup (2328061-MSD1)				Source:	E307052-(01	Prepared: 0	7/14/23	Analyzed: 07/17/23
Chloride	1590	40.0	250	1280	121	80-120	0.675	20	M2

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.



	Demittions		
WPX Energy - Carlsbad	Project Name:	RDX 17-25	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	07/19/23 16:04

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

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



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Re	
Pro	ject Information
sed	

Client	WPX Energy Pe	rmian LL	С.			Bill To	35			La	b Use	On	lv		[TAT		EPA P	rogram
	t: RDX 17-25				Atte	ention: Jim Raley		Lab	WO#						1D 2	the second s		Standard	CWA	SDWA
	t Manager: Gilb	ert Morei	no			dress: 5315 Buena Vista Dr.		FE	307	051	21	0/0	Number	07				day TAT		
	ss: 13000 W Cou				City	, State, Zip: Carlsbad, NM,	88220	- Barrier		and the second second	A	naly	sis and M	/etho	d		_	10000020		RCRA
City, S	tate, Zip_Odess	a,TX, 7976	65		Pho	one: 575-885-7502			βλ					1.1						
	: (832) 541-771				Ema	ail: jim.raley@dvn.com		1	ORO										State	
	Devon-team@e		com		WC): 21181900]	RO/	1	0		0.0		MN			NM CO	UT AZ	TX
ollec	ed by: Edyte Ko	nan			Inci	ident ID: nAB1712952339		<u>f</u>	0/D	/ 80.	826	601	e 30				1			
Time	, Date Sampled	Matrix	No. of	Sample ID			Lab	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		3		Remarks	
Sample	d		Containers				Number	De	TPH 6 8015	BT	2	ž	÷		BG		5	-		
10:4	7/13/2023	S	1			FS15	1	4'							X					Page sDWA RCRA
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					the second s													_		
dditi	onal Instruction	ns:																		
						t tampering with or intentionally mis	labelling the sample l	ocation	١,									ved on ice the da than 6 °C on sub		pled or
	ime of collection is co ished bγ: (Signature				Time	Sampled by: Received by: (Signature)	Date		Time			-				b Use				
A		=)		3/2023	14:20	Malle Sunal	1	23	14	20		Rece	eived or	ice:	V		Uniy			
elingu	ished by: (Signature	1 un a	Date	13.23	Time 700	Received by: (Signature)	Date 7.13	2	Time 17	8		T1			T2			<u>T3</u>		
elinqu	ished by: (Signature	2)	Date		Time	Received by Signature	Date	a	Time	2	-	11			4			13		
Ale	yew m		1.	13.0	2330	actin Ma	n 7/14/4	3	18;	a			Temp	C			10.1			
ample I	Matrix: S - Soil, Sd - So amples are discarde						Containe		e:g-(glass,	p - pc	oly/p								

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Client:	WPX Energy - Carlsbad Da	te Received:	07/14/23	08:35	Work Order ID:	E307056
Phone:	(539) 573-4018 Da	te Logged In:	07/13/23	16:02	Logged In By:	Alexa Michaels
Email:		e Date:	07/20/23	17:00 (4 day TAT)		
Chain o	f Custody (COC)					
	the sample ID match the COC?		Yes			
	the number of samples per sampling site location match t	he COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was tl	he COC complete, i.e., signatures, dates/times, requested	analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	field,	Yes		<u>Commen</u>	ts/Resolution
Sample	Turn Around Time (TAT)					
	the COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	•					
	sample cooler received?		Yes			
	, was cooler received in good condition?		Yes			
9. Was tl	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
	s, were custody/security seals intact?		NA			
-	the sample received on ice? If yes, the recorded temp is 4°C, i.e., Note: Thermal preservation is not required, if samples are rec		Yes			
13. If no	minutes of sampling visible ice, record the temperature. Actual sample tem	perature: <u>4°</u>	<u>C</u>			
Sample	<u>Container</u>					
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
	e appropriate volume/weight or number of sample containers	collected?	Yes			
Field La						
	e field sample labels filled out with the minimum information information in the sample ID2	ition:	Vac			
	Sample ID? Date/Time Collected?		Yes			
	Collectors name?		Yes Yes			
<u>Sampl</u> e	Preservation		100			
-	s the COC or field labels indicate the samples were presen	rved?	No			
	sample(s) correctly preserved?		NA			
	b filteration required and/or requested for dissolved metal	ls?	No			
<u>Mu</u> ltiph	ase Sample Matrix					
	s the sample have more than one phase, i.e., multiphase?		No			
	s, does the COC specify which phase(s) is to be analyzed	!?	NA			
<u>Subcont</u>	tract Laboratory					
	samples required to get sent to a subcontract laboratory?		No			
	a subcontract laboratory specified by the client and if so	who?	NA	Subcontract Lab: NA		



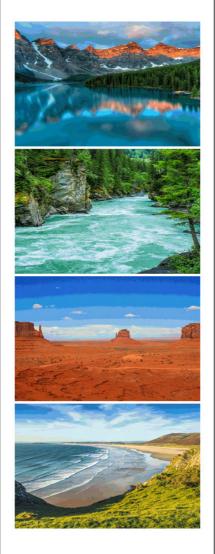
envirotech Inc.

Signature of client authorizing changes to the COC or sample disposition.

Date



Report to: **Gilbert Moreno**



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 17-25

Work Order: E307057

01058-0007 Job Number:

> Received: 7/14/2023

> > Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/19/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/19/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 17-25 Workorder: E307057 Date Received: 7/14/2023 8:35:00AM

Gilbert Moreno,



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Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/14/2023 8:35:00AM, under the Project Name: RDX 17-25.

The analytical test results summarized in this report with the Project Name: RDX 17-25 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com

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West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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٣		Sample Sum	mary		6
WPX Energy - Carlsbad		Project Name:	RDX 17-25		Depented
5315 Buena Vista Dr		Project Number:	01058-0007		Reported:
Carlsbad NM, 88220		Project Manager:	Gilbert Moreno		07/19/23 16:14
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS14 4'	E307057-01A	Soil	07/13/23	07/14/23	Glass Jar, 2 oz.



		ampic D	aca			
WPX Energy - Carlsbad	Project Name:	RDZ	X 17-25			
5315 Buena Vista Dr	Project Number	er: 0103	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			7/19/2023 4:14:56PM
		FS14 4'				
		E307057-01				
		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	A	nalyst: IY		Batch: 2328065
Benzene	ND	0.0250	1	07/14/23	07/17/23	
Ethylbenzene	ND	0.0250	1	07/14/23	07/17/23	
oluene	ND	0.0250	1	07/14/23	07/17/23	
-Xylene	ND	0.0250	1	07/14/23	07/17/23	
,m-Xylene	ND	0.0500	1	07/14/23	07/17/23	
Total Xylenes	ND	0.0250	1	07/14/23	07/17/23	
urrogate: 4-Bromochlorobenzene-PID		100 %	70-130	07/14/23	07/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: IY		Batch: 2328065
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/14/23	07/17/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		82.7 %	70-130	07/14/23	07/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: KM		Batch: 2329005
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/23	07/17/23	
Dil Range Organics (C28-C36)	ND	50.0	1	07/17/23	07/17/23	
urrogate: n-Nonane		100 %	50-200	07/17/23	07/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: BA		Batch: 2328061
Chloride	785	20.0	1	07/14/23	07/18/23	

Sample Data



QC Summary Data

		QU DI	u	ing Dun	4				
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		DX 17-25 1058-0007					Reported:
Carlsbad NM, 88220		Project Manager:		ilbert Moreno					7/19/2023 4:14:56PM
Calisbau IVIVI, 88220		Tibjeet Mailager.	0						#19/2023 4.14.301 W
		Volatile O	rganics l	by EPA 802	1B				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2328065-BLK1)							Prepared: 0	7/14/23	Analyzed: 07/17/23
Benzene	ND	0.0250					-		-
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.0	70-130			
LCS (2328065-BS1)							Prepared: 0	7/14/23	Analyzed: 07/17/23
Benzene	4.82	0.0250	5.00		96.5	70-130			
Ethylbenzene	4.71	0.0250	5.00		94.2	70-130			
Toluene	4.86	0.0250	5.00		97.1	70-130			
p-Xylene	4.85	0.0250	5.00		97.1	70-130			
p,m-Xylene	9.77	0.0500	10.0		97.7	70-130			
Total Xylenes	14.6	0.0250	15.0		97.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.84		8.00		98.0	70-130			
Matrix Spike (2328065-MS1)				Source:	E307053-	01	Prepared: 0	7/14/23	Analyzed: 07/17/23
Benzene	5.06	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.93	0.0250	5.00	ND	98.6	61-133			
Toluene	5.09	0.0250	5.00	ND	102	61-130			
p-Xylene	5.09	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.91		8.00		98.9	70-130			
Matrix Spike Dup (2328065-MSD1)				Source:	E307053-	01	Prepared: 0	7/14/23	Analyzed: 07/17/23
Benzene	5.00	0.0250	5.00	ND	100	54-133	1.20	20	
Ethylbenzene	4.89	0.0250	5.00	ND	97.7	61-133	0.905	20	
	5.03	0.0250	5.00	ND	101	61-130	1.15	20	
Toluene	5105						1.02		
Toluene p-Xylene	5.04	0.0250	5.00	ND	101	63-131	1.03	20	
		0.0250 0.0500	5.00 10.0	ND ND	101 101	63-131 63-131	1.03	20 20	
p-Xylene	5.04								



QC Summary Data

		QC D		ary Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	DX 17-25 1058-0007 silbert Moreno					Reported: 7/19/2023 4:14:56PM
	No	nhalogenated O	rganics	by EPA 801	5D - Gl	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2328065-BLK1)							Prepared: 0	7/14/23 A	Analyzed: 07/17/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.59		8.00		82.4	70-130			
LCS (2328065-BS2)							Prepared: 0	7/14/23 A	Analyzed: 07/17/23
Gasoline Range Organics (C6-C10)	47.2	20.0	50.0		94.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.77		8.00		84.6	70-130			
Matrix Spike (2328065-MS2)				Source: H	2307053-0	01	Prepared: 0	7/14/23 A	Analyzed: 07/17/23
Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.65		8.00		83.2	70-130			
Matrix Spike Dup (2328065-MSD2)				Source: H	2307053-0	01	Prepared: 0	7/14/23 A	Analyzed: 07/17/23
Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.8	70-130	0.677	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.72		8.00		83.9	70-130			



QC Summary Data

		QC D		ary Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	RDX 17-25)1058-0007 Gilbert Moreno					Reported: 7/19/2023 4:14:56PM
	Nonh	alogenated Org	anics by	v EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2329005-BLK1)							Prepared: 0	7/17/23 A	analyzed: 07/17/23
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	56.0		50.0		112	50-200			
LCS (2329005-BS1)							Prepared: 0	7/17/23 A	analyzed: 07/17/23
Diesel Range Organics (C10-C28)	253	25.0	250		101	38-132			
Surrogate: n-Nonane	49.9		50.0		99.7	50-200			
Matrix Spike (2329005-MS1)				Source: F	307053-	03	Prepared: 0	7/17/23 A	analyzed: 07/17/23
Diesel Range Organics (C10-C28)	250	25.0	250	ND	99.9	38-132			
Surrogate: n-Nonane	47.3		50.0		94.7	50-200			
Matrix Spike Dup (2329005-MSD1)				Source: F	307053-	03	Prepared: 0	7/17/23 A	analyzed: 07/17/23
Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	38-132	0.940	20	
Surrogate: n-Nonane	45.0		50.0		90.1	50-200			



QC Summary Data

		L L		J					
WPX Energy - Carlsbad		Project Name:		DX 17-25					Reported:
5315 Buena Vista Dr		Project Number:		1058-0007					
Carlsbad NM, 88220		Project Manager:	G	ilbert Moreno					7/19/2023 4:14:56PM
		Anions	by EPA (300.0/9056A	1				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2328061-BLK1)							Prepared: 0	7/14/23	Analyzed: 07/17/23
Chloride	ND	20.0							
LCS (2328061-BS1)							Prepared: 0	7/14/23	Analyzed: 07/17/23
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2328061-MS1)				Source:	E307052-(01	Prepared: 0	7/14/23	Analyzed: 07/17/23
Chloride	1580	40.0	250	1280	117	80-120			
Matrix Spike Dup (2328061-MSD1)				Source:	E307052-0	01	Prepared: 0	7/14/23	Analyzed: 07/17/23
Chloride	1590	40.0	250	1280	121	80-120	0.675	20	M2

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.



WPX Energy - Carlsbad	Project Name:	RDX 17-25						
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:					
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	07/19/23 16:14					

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

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



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Reproject Information

Page	ived
ogram SDWA	by OCD
RCRA	
тх	8/18/2023
	7:32:08 AM

cheric. vv	WPX Energy Permian LLC. Bill To						51	Lab Use Only				TAT				EPA I	Program			
	RDX 17-25					ention: Jim Raley		Lab WO# Job Number E 307057 01058-000				1D 2D 3D Standard		d CWA	SDWA					
	Aanager: Gilbe					Address: 5315 Buena Vista Dr.				05	7	OK	158	0007				5 day TAT		
	13000 W Cou				- 20.1917117221	City, State, Zip: Carlsbad, NM, 88220						Anal	ysis a	nd Metho	d					RCRA
	e, Zip_Odessa		65		Ph	one: 575-885-7502			by (
	332) 541-7719				Em	ail: jim.raley@dvn.com	5		ORC										State	
	evon-team@e		com		W	0: 21181900			RO/	21	0	0	0.0		MN		¥	NM C	O UT AZ	Z TX
ollected	by: Edyte Ko	nan			Inc	ident ID: nAB1712952339		- ÷	0/0	y 80.	826	601	e 30							
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC		Remark	s
10:20	7/13/2023	S	1			FS14	1	4'							x					
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ddition	al Instruction	s:																		
			252	3 B		t tampering with or intentionally mislabellir	ng the sample	ocatio	n,		- allar							eceived on ice the less than 6 °C on		
	d by: (Signature		Date	e grounds for legal Time 3/2023 14:2		Sampled by: Received by: (Signature) MULLIL (LUL) LOL	Date 7-13-c	23	Time	120)			l on ice:	L	05	se On			
elinguishe MUU	ed by: (Signature	ralp	Date	10 10	700	Received by: (Signature)	Date 7.13		Time	_		T1			T2	<i>.</i>		<u>T3</u>		
M	ed by: (Signature	VSS0	Date	13.232	330	Received by (Sprature	Daty 7/14/2	23	Time	:3	5	AVO	G Ten	np°C_L	1	11		-		
the second se	rix: S - Soil , Sd - Sol			the second s										c, ag - aml						
						arrangements are made. Hazardous sa his COC. The liability of the laboratory									t exp	ense.	The re	eport for the a	analysis of th	e above

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

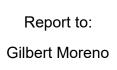
Client:	WPX Energy - Carlsbad D	ate Received:	07/14/23 08	8:35	Work Order ID:	E307057
Phone:	(539) 573-4018 D	ate Logged In:	07/13/23 10	6:03	Logged In By:	Alexa Michaels
Email:		ue Date:	07/20/23 1	7:00 (4 day TAT)		
Chain o	of Custody (COC)					
1. Does	the sample ID match the COC?		Yes			
2. Does	the number of samples per sampling site location match	the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was t	he COC complete, i.e., signatures, dates/times, requested	1 analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Comment	ts/Resolution
<u>Sample</u>	<u>Turn Around Time (TAT)</u>					
6. Did tł	he COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	Cooler					
7. Was a	a sample cooler received?		Yes			
8. If yes	, was cooler received in good condition?		Yes			
9. Was t	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If ye	es, were custody/security seals intact?		NA			
12. Was t	the sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re		Yes			
13 Ifno	minutes of sampling visible ice, record the temperature. Actual sample ter	moratura: 1º	c			
		протаците. <u>+</u>	<u>c</u>			
	<u>Container</u> aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	he head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
	e appropriate volume/weight or number of sample containers	s collected?	Yes			
Field La			100			
	e field sample labels filled out with the minimum inform	ation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes	L		
	Collectors name?		Yes			
	Preservation	10	N			
	s the COC or field labels indicate the samples were prese	erved?	No			
	sample(s) correctly preserved? b filteration required and/or requested for dissolved meta	1.2	NA Na			
		415 (No			
	nase Sample Matrix					
	s the sample have more than one phase, i.e., multiphase?		No			
27. If ye	es, does the COC specify which phase(s) is to be analyze	d?	NA			
Subsen	tract Laboratory					
Subcom						
28. Are	samples required to get sent to a subcontract laboratory? a subcontract laboratory specified by the client and if so		No NA			

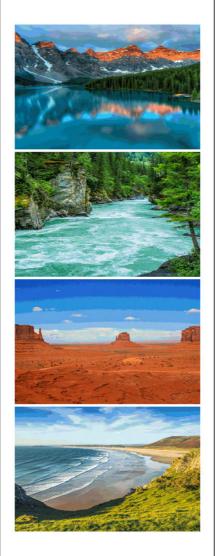
Signature of client authorizing changes to the COC or sample disposition.



envirotech Inc.

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5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 17-25

Work Order: E307058

Job Number: 01058-0007

Received: 7/14/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/19/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 7/19/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 17-25 Workorder: E307058 Date Received: 7/14/2023 8:35:00AM

Gilbert Moreno,



Page 148 of 369

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/14/2023 8:35:00AM, under the Project Name: RDX 17-25.

The analytical test results summarized in this report with the Project Name: RDX 17-25 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe Technical Representative/Client Services

Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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QC - Anions by EPA 300.0/9056A	9
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*	0					
WPX Energy - Carlsbad		Project Name:	RDX 17-25		Depented	
5315 Buena Vista Dr		Project Number:	01058-0007		Reported:	
Carlsbad NM, 88220		Project Manager:	Gilbert Moreno		07/19/23 16:16	
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container	
SW05 0-4'	E307058-01A	Soil	07/13/23	07/14/23	Glass Jar, 2 oz.	



	D.	ampic D	uu			
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name Project Numb Project Manag	er: 0103	K 17-25 58-0007 ert Moreno			Reported: 7/19/2023 4:16:34PM
		SW05 0-4'				
		E307058-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2328065
Benzene	ND	0.0250	1	07/14/23	07/17/23	
Ethylbenzene	ND	0.0250	1	07/14/23	07/17/23	
Toluene	ND	0.0250	1	07/14/23	07/17/23	
o-Xylene	ND	0.0250	1	07/14/23	07/17/23	
o,m-Xylene	ND	0.0500	1	07/14/23	07/17/23	
Total Xylenes	ND	0.0250	1	07/14/23	07/17/23	
Surrogate: 4-Bromochlorobenzene-PID		99.6 %	70-130	07/14/23	07/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2328065
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/14/23	07/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.2 %	70-130	07/14/23	07/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2329005
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/23	07/17/23	
Dil Range Organics (C28-C36)	ND	50.0	1	07/17/23	07/17/23	
Surrogate: n-Nonane		96.4 %	50-200	07/17/23	07/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2328061
Chloride	214	20.0	1	07/14/23	07/18/23	

Sample Data



QC Summary Data

		QU DI	4111111	ing Duu	4				
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		DX 17-25 1058-0007					Reported:
Carlsbad NM, 88220		Project Manager:		ilbert Moreno					7/19/2023 4:16:34PM
Curisbud 1414, 00220		, 0							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		Volatile O	rganics l	by EPA 802	1B				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2328065-BLK1)							Prepared: 0	7/14/23	Analyzed: 07/17/23
Benzene	ND	0.0250					-		-
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.0	70-130			
LCS (2328065-BS1)							Prepared: 0	7/14/23	Analyzed: 07/17/23
Benzene	4.82	0.0250	5.00		96.5	70-130			
Ethylbenzene	4.71	0.0250	5.00		94.2	70-130			
Toluene	4.86	0.0250	5.00		97.1	70-130			
o-Xylene	4.85	0.0250	5.00		97.1	70-130			
p,m-Xylene	9.77	0.0500	10.0		97.7	70-130			
Total Xylenes	14.6	0.0250	15.0		97.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.84		8.00		98.0	70-130			
Matrix Spike (2328065-MS1)				Source:	E307053-	01	Prepared: 0	7/14/23	Analyzed: 07/17/23
Benzene	5.06	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.93	0.0250	5.00	ND	98.6	61-133			
Toluene	5.09	0.0250	5.00	ND	102	61-130			
p-Xylene	5.09	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.91		8.00		98.9	70-130			
Matrix Spike Dup (2328065-MSD1)				Source:	E307053-	01	Prepared: 0	7/14/23	Analyzed: 07/17/23
Benzene	5.00	0.0250	5.00	ND	100	54-133	1.20	20	
Ethylbenzene	4.89	0.0250	5.00	ND	97.7	61-133	0.905	20	
	5.00	0.0250	5.00	ND	101	61-130	1.15	20	
Toluene	5.03								
	5.03 5.04		5.00	ND	101	63-131	1.03	20	
o-Xylene		0.0250	5.00 10.0	ND ND	101 101	63-131 63-131	1.03 1.10	20 20	
	5.04								



QC Summary Data

		QU D		ii y Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		DX 17-25 1058-0007					Reported:
Carlsbad NM, 88220		Project Manager:	G	ilbert Moreno					7/19/2023 4:16:34PM
	No	nhalogenated O	rganics	by EPA 801	5D - Gl	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2328065-BLK1)							Prepared: 0	7/14/23 A	analyzed: 07/17/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.59		8.00		82.4	70-130			
LCS (2328065-BS2)							Prepared: 0	7/14/23 A	analyzed: 07/17/23
Gasoline Range Organics (C6-C10)	47.2	20.0	50.0		94.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.77		8.00		84.6	70-130			
Matrix Spike (2328065-MS2)				Source: F	307053-0	01	Prepared: 0	7/14/23 A	analyzed: 07/17/23
Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.65		8.00		83.2	70-130			
Matrix Spike Dup (2328065-MSD2)				Source: H	307053-0	01	Prepared: 0	7/14/23 A	analyzed: 07/17/23
Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.8	70-130	0.677	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.72		8.00		83.9	70-130			



QC Summary Data

		QU N	<i>u</i>	in y Data	•				
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		DX 17-25 1058-0007					Reported:
Carlsbad NM, 88220		Project Manager:	G	ilbert Moreno					7/19/2023 4:16:34PM
	Nonh	alogenated Org	anics by	EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2329005-BLK1)							Prepared: 0	7/17/23 A	nalyzed: 07/17/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.0		50.0		112	50-200			
LCS (2329005-BS1)							Prepared: 0	7/17/23 A	nalyzed: 07/17/23
Diesel Range Organics (C10-C28)	253	25.0	250		101	38-132			
Surrogate: n-Nonane	49.9		50.0		99.7	50-200			
Matrix Spike (2329005-MS1)				Source: I	E307053-	03	Prepared: 0	7/17/23 A	nalyzed: 07/17/23
Diesel Range Organics (C10-C28)	250	25.0	250	ND	99.9	38-132			
Surrogate: n-Nonane	47.3		50.0		94.7	50-200			
Matrix Spike Dup (2329005-MSD1)				Source: I	E307053-	03	Prepared: 0	7/17/23 A	nalyzed: 07/17/23
Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	38-132	0.940	20	
Surrogate: n-Nonane	45.0		50.0		90.1	50-200			



QC Summary Data

		$\chi \sim \sim$		v					
WPX Energy - Carlsbad		Project Name:		DX 17-25					Reported:
5315 Buena Vista Dr		Project Number:	0	1058-0007					
Carlsbad NM, 88220		Project Manager:	G	ilbert Moreno					7/19/2023 4:16:34PM
		Anions	by EPA 🤅	300.0/9056A	1				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2328061-BLK1)							Prepared: 0	7/14/23	Analyzed: 07/17/23
Chloride	ND	20.0							
LCS (2328061-BS1)							Prepared: 0	7/14/23	Analyzed: 07/17/23
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2328061-MS1)				Source:	E307052-(01	Prepared: 0	7/14/23	Analyzed: 07/17/23
Chloride	1580	40.0	250	1280	117	80-120			
Matrix Spike Dup (2328061-MSD1)				Source:	E307052-(01	Prepared: 0	7/14/23	Analyzed: 07/17/23
Chloride	1590	40.0	250	1280	121	80-120	0.675	20	M2

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.



		Deminitions		
,	WPX Energy - Carlsbad	Project Name:	RDX 17-25	
4	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
(Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	07/19/23 16:16
(Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	07/19

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

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Released to Imaging: 8/22/2023 8:25:59 AM



Refroject Information

Page	Received
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	PX Energy Pe	rmian LLC	С.			Bill To	10			Li	ab U	se Or					TA		EPA P	rogram	
	DX 17-25					Attention: Jim Raley			WO	#	-		Numb		1D 2	2D	3D	Standard	CWA	SDWA	
	anager: Gilbe					Address: 5315 Buena Vista Dr.			307	05		01058-0007						5 day TAT			
	13000 W Cou					City, State, Zip: Carlsbad, NM, 882	20					Analy	sis an	d Metho	d					RCRA	
	e, Zip_Odessa		65			Phone: 575-885-7502	13		h by			1.1						Sugar, Da			
	32) 541-7719					Email: jim.raley@dvn.com			ORC				0.0						State		
	von-team@e		com			WO: 21181900			RO/	17	0	0			MN	MN	MN			NM CC	UT AZ
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ime npled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	3TEX by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	2000	GDOC		Remarks	
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iquishe		N Do	Date	13.73 Tin	23	Bo Received by: (Signature)	Date 7/14/	73	Time 8	:3	2	AVG	Tem		4						
ple Mati	ix: S - Soil, Sd - So	lid, Sg - Slud	ge, A - Aque	ous, O - Other		- marine and	Containe	r Typ	e:g -	glass					per gla	ass. v	- VO	4	lan internet internet		
					nless ot	her arrangements are made. Hazardous s													alvsis of the	ahove	
						ith this COC. The liability of the laboratory															
											1	->		-		10		i ra	+ -		
						Dege	11 of 12					2		e) r	יר	V	iro	TE	; C	

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Client:	WPX Energy - Carlsbad D	ate Received:	07/14/23 08	3:35	Work Order ID:	E307058
Phone:	(539) 573-4018 D	ate Logged In:	07/13/23 16	5:05	Logged In By:	Alexa Michaels
Email:		ue Date:	07/20/23 17	7:00 (4 day TAT)		
Chain o	f Custody (COC)					
1. Does	the sample ID match the COC?		Yes			
2. Does	the number of samples per sampling site location match	the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was t	he COC complete, i.e., signatures, dates/times, requested	l analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Comment	ts/Resolution
Sample	<u>Turn Around Time (TAT)</u>					
6. Did tł	ne COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	Cooler					
7. Was a	a sample cooler received?		Yes			
8. If yes	, was cooler received in good condition?		Yes			
9. Was t	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
12. Was t	the sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re		Yes			
13 If no	minutes of sampling visible ice, record the temperature. Actual sample ter	mnerature: 4º	C			
		протаците. <u>+</u>	<u>c</u>			
	Container aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
	e appropriate volume/weight or number of sample containers	s collected?	Yes			
Field La			100			
	e field sample labels filled out with the minimum inform	ation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
	Preservation	10	N T			
	s the COC or field labels indicate the samples were prese	erved?	No			
	sample(s) correctly preserved? b filteration required and/or requested for dissolved meta	1.9	NA			
	• •	415 (No			
	nase Sample Matrix					
	s the sample have more than one phase, i.e., multiphase?		No			
27. If ye	es, does the COC specify which phase(s) is to be analyze	d?	NA			
Subcont	tract Laboratory_					
			3.7			
28. Are	samples required to get sent to a subcontract laboratory? a subcontract laboratory specified by the client and if so		No NA S			

Signature of client authorizing changes to the COC or sample disposition.

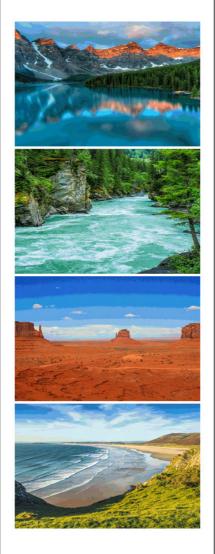


envirotech Inc.

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Report to: Gilbert Moreno



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 17-25

Work Order: E307060

Job Number: 01058-0007

Received: 7/14/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/19/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 7/19/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 17-25 Workorder: E307060 Date Received: 7/14/2023 8:35:00AM

Gilbert Moreno,



Page 160 of 369

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/14/2023 8:35:00AM, under the Project Name: RDX 17-25.

The analytical test results summarized in this report with the Project Name: RDX 17-25 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com

Released to Imaging: 8/22/2023 8:25:59 AM

Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

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*		Sample Sum	mary		
WPX Energy - Carlsbad		Project Name:	RDX 17-25		Reported:
5315 Buena Vista Dr		Project Number:	01058-0007		Reported.
Carlsbad NM, 88220		Project Manager:	Gilbert Moreno		07/19/23 16:18
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW03 0-4'	E307060-01A	Soil	07/13/23	07/14/23	Glass Jar, 2 oz.
SW04 0-4'	E307060-02A	Soil	07/13/23	07/14/23	Glass Jar, 2 oz.



		ampic D	uuu			
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Project Numb Project Manag	er: 0103	K 17-25 58-0007 ert Moreno			Reported: 7/19/2023 4:18:35PM
	5	SW03 0-4'				
		E307060-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	/kg Analyst: IY			Batch: 2328068
Benzene	ND	0.0250	1	07/14/23	07/17/23	
Ethylbenzene	ND	0.0250	1	07/14/23	07/17/23	
Foluene	ND	0.0250	1	07/14/23	07/17/23	
o-Xylene	ND	0.0250	1	07/14/23	07/17/23	
o,m-Xylene	ND	0.0500	1	07/14/23	07/17/23	
Fotal Xylenes	ND	0.0250	1	07/14/23	07/17/23	
Surrogate: 4-Bromochlorobenzene-PID		96.4 %	70-130	07/14/23	07/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: IY		Batch: 2328068
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/14/23	07/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.8 %	70-130	07/14/23	07/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: KM		Batch: 2329005
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/23	07/17/23	
Dil Range Organics (C28-C36)	ND	50.0	1	07/17/23	07/17/23	
Surrogate: n-Nonane		97.9 %	50-200	07/17/23	07/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2328062
Chloride	206	20.0	1	07/14/23	07/17/23	

Sample Data



	5	ample D	ala			
WPX Energy - Carlsbad	Project Name:	RD	K 17-25			
5315 Buena Vista Dr	Project Numbe	er: 0103	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			7/19/2023 4:18:35PM
		SW04 0-4'				
		E307060-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2328068
Benzene	ND	0.0250	1	07/14/23	07/17/23	
Ethylbenzene	ND	0.0250	1	07/14/23	07/17/23	
Toluene	ND	0.0250	1	07/14/23	07/17/23	
o-Xylene	ND	0.0250	1	07/14/23	07/17/23	
p,m-Xylene	ND	0.0500	1	07/14/23	07/17/23	
Total Xylenes	ND	0.0250	1	07/14/23	07/17/23	
Surrogate: 4-Bromochlorobenzene-PID		96.7 %	70-130	07/14/23	07/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2328068
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/14/23	07/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.3 %	70-130	07/14/23	07/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2329005
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/23	07/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/23	07/17/23	
Surrogate: n-Nonane		93.9 %	50-200	07/17/23	07/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2328062
Chloride	36.9	20.0	1	07/14/23	07/17/23	



QC Summary Data

		QU DI	<i>u</i>	ing Dut	4				
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		DX 17-25 1058-0007					Reported:
Carlsbad NM, 88220		Project Manager:		ilbert Moreno					7/19/2023 4:18:35PM
Calisbau Nivi, 88220		Floject Manager.	U	nibert Moreno					7/19/2023 4 .18.551 W
		Volatile O	rganics l	by EPA 802	1B				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2328068-BLK1)							Prepared: 0	7/14/23 A	Analyzed: 07/17/23
Benzene	ND	0.0250					-		-
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.2	70-130			
LCS (2328068-BS1)							Prepared: 0	7/14/23 A	Analyzed: 07/17/23
Benzene	4.77	0.0250	5.00		95.4	70-130			
Ethylbenzene	4.72	0.0250	5.00		94.3	70-130			
Toluene	4.79	0.0250	5.00		95.8	70-130			
p-Xylene	4.71	0.0250	5.00		94.2	70-130			
p,m-Xylene	9.60	0.0500	10.0		96.0	70-130			
Total Xylenes	14.3	0.0250	15.0		95.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.66		8.00		95.8	70-130			
Matrix Spike (2328068-MS1)				Source:	E307060-	02	Prepared: 0	7/14/23 A	Analyzed: 07/17/23
Benzene	5.04	0.0250	5.00	ND	101	54-133			
Ethylbenzene	5.00	0.0250	5.00	ND	99.9	61-133			
Toluene	5.07	0.0250	5.00	ND	101	61-130			
p-Xylene	4.99	0.0250	5.00	ND	99.8	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.8	70-130			
Matrix Spike Dup (2328068-MSD1)				Source:	E307060-	02	Prepared: 0	7/14/23 A	Analyzed: 07/17/23
Benzene	4.99	0.0250	5.00	ND	99.7	54-133	1.12	20	
Ethylbenzene	4.93	0.0250	5.00	ND	98.6	61-133	1.34	20	
Toluene	5.02	0.0250	5.00	ND	100	61-130	1.09	20	
Valaria	4.94	0.0250	5.00	ND	98.8	63-131	1.02	20	
o-Xylene	1.21	0.0250							
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	1.21	20	
-			10.0 15.0	ND ND	100 99.9	63-131 63-131	1.21 1.14	20 20	



QC Summary Data

		QC D		ii y Data	•				
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:	01	DX 17-25 1058-0007					Reported:
Carlsbad NM, 88220		Project Manager:	G	ilbert Moreno					7/19/2023 4:18:35PM
	No	nhalogenated O	rganics	by EPA 801	5D - G	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2328068-BLK1)							Prepared: 0	7/14/23 A	analyzed: 07/17/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.99		8.00		87.3	70-130			
LCS (2328068-BS2)							Prepared: 0	7/14/23 A	analyzed: 07/17/23
Gasoline Range Organics (C6-C10)	42.9	20.0	50.0		85.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.84		8.00		85.5	70-130			
Matrix Spike (2328068-MS2)				Source: E	307060-	02	Prepared: 0	7/14/23 A	analyzed: 07/17/23
Gasoline Range Organics (C6-C10)	45.7	20.0	50.0	ND	91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.87		8.00		85.9	70-130			
Matrix Spike Dup (2328068-MSD2)				Source: E	307060-	02	Prepared: 0	7/14/23 A	analyzed: 07/17/23
Gasoline Range Organics (C6-C10)	47.0	20.0	50.0	ND	93.9	70-130	2.83	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.96		8.00		86.9	70-130			



QC Summary Data

		QU DI		II y Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		DX 17-25 1058-0007					Reported:
Carlsbad NM, 88220		Project Manager:	G	ilbert Moreno					7/19/2023 4:18:35PM
	Nonh	alogenated Org	anics by	EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2329005-BLK1)							Prepared: 0	7/17/23 A	Analyzed: 07/17/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.0		50.0		112	50-200			
LCS (2329005-BS1)							Prepared: 0	7/17/23 A	Analyzed: 07/17/23
Diesel Range Organics (C10-C28)	253	25.0	250		101	38-132			
Surrogate: n-Nonane	49.9		50.0		99.7	50-200			
Matrix Spike (2329005-MS1)				Source: I	E 307053 -	03	Prepared: 0	7/17/23 A	Analyzed: 07/17/23
Diesel Range Organics (C10-C28)	250	25.0	250	ND	99.9	38-132			
Surrogate: n-Nonane	47.3		50.0		94.7	50-200			
Matrix Spike Dup (2329005-MSD1)				Source: I	E 307053 -	03	Prepared: 0	7/17/23 A	Analyzed: 07/17/23
Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	38-132	0.940	20	
Surrogate: n-Nonane	45.0		50.0		90.1	50-200			



QC Summary Data

				J –					
WPX Energy - Carlsbad		Project Name:		DX 17-25					Reported:
5315 Buena Vista Dr		Project Number:		1058-0007					
Carlsbad NM, 88220		Project Manager	: 6	ilbert Moreno					7/19/2023 4:18:35PM
		Anions	by EPA	300.0/9056	4				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2328062-BLK1)							Prepared: 0	7/14/23 A	Analyzed: 07/17/23
Chloride	ND	20.0							
LCS (2328062-BS1)							Prepared: 0	7/14/23 A	Analyzed: 07/17/23
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2328062-MS1)				Source:	E307045-0)1	Prepared: 0	7/14/23 A	Analyzed: 07/17/23
Chloride	6750	400	250	6540	83.2	80-120			
Matrix Spike Dup (2328062-MSD1)				Source:	E307045-0	01	Prepared: 0	7/14/23 A	Analyzed: 07/17/23
Chloride	6600	400	250	6540	23.5	80-120	2.24	20	M4

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.



	Deminitions		
VPX Energy - Carlsbad	Project Name:	RDX 17-25	
315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	07/19/23 16:18
	315 Buena Vista Dr	VPX Energy - Carlsbad Project Name: 315 Buena Vista Dr Project Number:	315 Buena Vista Dr Project Number: 01058-0007

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

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Released

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Client:	WPX Energy Pe	ermian LL	C.			den.	Bill To				Anne a second	La	ab Us	se On	ly				T/	AT		EPA P	rogram
Projec	t: RDX 17-25					Atte	ntion: Jim Raley			Lab WO#				Job Number			1D 2D 3		3D	Sta	andard	CWA	SDWA
Projec	t Manager: Gilb	ert More	no		1993	Add	ress: 5315 Buena Vista Dr.	201		FE	307	06	0	NA	58-	.0007				5 c	lay TAT		
	ss: 13000 W Cou				100		, State, Zip: Carlsbad, NM, 8	8220		Inn				Analy	sis a	nd Metho	d	-	L		TO SALES		RCRA
City, State, Zip_Odessa,TX, 79765					ne: 575-885-7502		į		à						T	1							
	: (832) 541-7719						il: jim.raley@dvn.com			1	ROL						1					State	
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	ted by: Edyte Ko					WO: 21181900			DRC	021	60	10	00.0		MN		¥						
		T	1	1	S. S. S.	Incid	dent ID: nAB1712952339			(£	RO/	oy 8	y 82	s 60	de 3		UN N		1.				
Time Sample	Date Sampled	Matrix	No. of Containers	Sample ID)				Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC			Remarks	
10:00	0 7/13/2023	S	1				SW03		1	0-4'							х						
10:10	0 7/13/2023	S	1				SW04		2	0-4'							х						
																		1					
										-							1	-					
	_									-							-						
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Additi	onal Instruction	15:				_		- in															
date or ti	me of collection is co	nsidered fra	2.5				tampering with or intentionally mislab Sampled by:	elling t	he sample l	ocatior	٦,			0.00000000000							l on ice the day an 6 °C on sub		
Relinquished by: (Signature) Date Time 07/13/2023 14:20					Received by: (Signature) Michelle Ceurgal	ale 7-17-0		7-23 Time 1420)	Received on ice:		d on ice:	Lab Use Only			nly						
Relinquished by: (Signature) Date 7-13-27 Time [700)	Received by: (Signature)		Date 7.13		3.73 1700			T1		<u>T2</u>			<u>T3</u>	inte States						
Relinquished by: (Signature) Date Time 7:13.13 232				30,	Received by: (Signature)		Date 7/14/2		3 8:35 AVG Temp °C_4														
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Containe	r Typ	e: g -	glass	, p - 1			c, ag - am		lass,	v - VO	A						
						other ar	rrangements are made. Hazardou														for the ana	lysis of the	above
							his COC. The liability of the laborat													10		(d)	

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Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

	: Please take note of any NO checkmarks.	-	-	Checklist (SRC)			
	e no response concerning these items within 24 hours of the e			-	yzed as reque		
Client:		te Received:	07/14/23	08:35		Work Order ID:	E307060
Phone:		ate Logged In:	07/13/23			Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com Du	ie Date:	07/20/23	17:00 (4 day TAT)			
<u>Chain o</u>	f Custody (COC)						
1. Does	the sample ID match the COC?		Yes				
2. Does	the number of samples per sampling site location match	the COC	Yes				
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Co	ourier		
4. Was th	he COC complete, i.e., signatures, dates/times, requested	analyses?	Yes				
5. Were	all samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted in the	e field,				Commen	ts/Resolution
Samula	i.e, 15 minute hold time, are not included in this disucssion.			Г		<u>commen</u>	
	Turn Around Time (TAT) the COC indicate standard TAT, or Expedited TAT?		Yes				
			105				
Sample 7	sample cooler received?		Vec				
	, was cooler received in good condition?		Yes				
•			Yes				
	he sample(s) received intact, i.e., not broken?		Yes				
	e custody/security seals present?		No				
	s, were custody/security seals intact?		NA				
	he sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re- minutes of sampling visible ice, record the temperature. Actual sample tem	ceived w/i 15	Yes				
	<u>Container</u>		-				
	aqueous VOC samples present?		No				
	VOC samples collected in VOA Vials?		NA				
	e head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	non-VOC samples collected in the correct containers?		Yes				
	appropriate volume/weight or number of sample containers	collected?	Yes				
Field La		concerea.	105				
	e field sample labels filled out with the minimum inform	ation					
	Sample ID?	ation.	Yes				
	Date/Time Collected?		Yes	L			
(Collectors name?		Yes				
	Preservation						
	s the COC or field labels indicate the samples were prese	rved?	No				
	sample(s) correctly preserved?		NA				
24. Is lat	b filteration required and/or requested for dissolved meta	ls?	No				
<u>Multiph</u>	ase Sample Matrix						
26. Does	s the sample have more than one phase, i.e., multiphase?		No				
27. If ye	s, does the COC specify which phase(s) is to be analyzed	1?	NA				
<u>Subcont</u>	ract Laboratory						
	samples required to get sent to a subcontract laboratory?		No				
	a subcontract laboratory specified by the client and if so		NA	Subcontract Lab:	NA		
<u>Client l</u>	Instruction						

Signature of client authorizing changes to the COC or sample disposition.



envirotech Inc.

APPENDIX G

NMOCD Notifications

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213



Erick Herrera

From: Sent:	Hamlet, Robert, EMNRD <robert.hamlet@emnrd.nm.gov> Wednesday, June 14, 2023 4:33 PM</robert.hamlet@emnrd.nm.gov>
То:	Raley, Jim
Cc:	Devon-Team; Bratcher, Michael, EMNRD; Harimon, Jocelyn, EMNRD; Maxwell, Ashley, EMNRD
Subject:	(Extension Approval) - RDX 17-25 Extension Request - nAB1712952339

Some people who received this message don't often get email from robert.hamlet@emnrd.nm.gov. Learn why this is important

Please send all future Extension Requests to OCD.Enviro@emnrd.nm.gov

RE: Incident #NAB1712952339

Jim,

Your request for an extension to **September 28th, 2023** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet ● Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 506 W. Texas Ave.| Artesia, NM 88210 575.909.0302 | robert.hamlet@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Raley, Jim <Jim.Raley@dvn.com>
Sent: Wednesday, June 14, 2023 1:56 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Devon-Team <Devon-Team@etechenv.com>
Subject: [EXTERNAL] RDX 17-25 Extension Request - nAB1712952339

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

Robert,

WPX Energy Permian, LLC (WPX) is requesting an extension to the current deadline for a report required in 19.15.29.12.B.(1) NMAC at the RDX 17-25 (Site).

A produced water release was discovered on May 2, 2017, and subsequently assigned Incident Number nAB1712952339. WPX submitted a remediation work plan proposing further investigation of residual soil impacts to

develop a corrective action plan, which was approved by NMOCD on March 27, 2023, and granted a deadline for June 30, 2023. A sundry was submitted and has since been approved to initiate remediation activities. Due to the current site conditions and release location, additional time is being requested to implement additional safety guidelines to excavate around subsurface utilities located within proposed work area.

To provide enough time for additional planning, remediation activities and subsequent corrective action report, WPX requests an extension of the deadline to September 28, 2023.

Jim Raley | Environmental Professional - Permian Basin 5315 Buena Vista Dr., Carlsbad, NM 88220 C: (575)689-7597 | jim.raley@dvn.com



Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

Erick Herrera

From:	Enviro, OCD, EMNRD <ocd.enviro@emnrd.nm.gov></ocd.enviro@emnrd.nm.gov>
Sent:	Thursday, June 29, 2023 3:42 PM
То:	Erick Herrera
Cc:	Bratcher, Michael, EMNRD; Maxwell, Ashley, EMNRD
Subject:	RE: [EXTERNAL] WPX Site Sampling Activity Update (7/5-7/7)

Erick,

The OCD has received your notification. When reporting sampling at multiple locations it is required to provide and date and time for each location. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1220 South St. Francis Drive | Santa Fe, NM 87505 (505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov http:// www.emnrd.nm.gov



From: Erick Herrera <erick@etechenv.com>
Sent: Wednesday, June 28, 2023 3:07 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; blm_nm_cfo_spill@blm.gov
Cc: Raley, Jim <jim.raley@dvn.com>; Devon-Team <Devon-Team@etechenv.com>
Subject: [EXTERNAL] WPX Site Sampling Activity Update (7/5-7/7)

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

Good afternoon,

WPX anticipates conducting confirmation soil sampling activities at the following sites between July 5 – July 7, 2023:

Site Name: RDX 17-25 Incident Number: NAB1712952339 API: 30-015-41664

Site Name: RDX 17-36 Incident Number: NRM2017643736 API: 30-015-43636

Site Name: Toro 22-3

.

API: 30-025-35253 Incident Number: nOY1727952679

Thank you,

Erick Herrera Staff Geologist

e Environmental & Safety Solutions, Inc.

Work: (432) 305-6416 Cell: (281) 777-4152

Erick Herrera

From:	Enviro, OCD, EMNRD <ocd.enviro@emnrd.nm.gov></ocd.enviro@emnrd.nm.gov>
Sent:	Monday, July 10, 2023 5:29 PM
То:	Erick Herrera
Cc:	Bratcher, Michael, EMNRD; Maxwell, Ashley, EMNRD
Subject:	RE: [EXTERNAL] WPX Site Sampling Activity Update (7/13-7/14)

Erick,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH Jocelyn Harimon • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1220 South St. Francis Drive | Santa Fe, NM 87505 (505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov http:// www.emnrd.nm.gov



From: Erick Herrera <erick@etechenv.com>
Sent: Monday, July 10, 2023 2:06 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; blm_nm_cfo_spill@blm.gov
Cc: Raley, Jim <jim.raley@dvn.com>; Devon-Team <Devon-Team@etechenv.com>
Subject: [EXTERNAL] WPX Site Sampling Activity Update (7/13-7/14)

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

Good afternoon,

WPX anticipates conducting confirmation soil sampling activities at the following site between July 13 through July 14, 2023.

Proposed Date: July 13, 2023 Proposed Timeframe: 0800 – 1700 hrs. Site Name: RDX 17-25 Incident Number: NAB1712952339 API: 30-015-41664

Thank you,

Erick Herrera Staff Geologist

.



Work: (432) 305-6416 Cell: (281) 777-4152

APPENDIX H

Approved Remediation Work Plan

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213



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	NRM2017643736
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) NRM2017643736
Contact mailing address: 5315 Buena Vista Drive, Carlsbad, NM 88	3220

Location of Release Source

Latitude 32.049734

Longitude -103.9102662 (NAD 83 in decimal degrees to 5 decimal places)

Site Name: RDX 17 Federal #36H	Site Type: Production Facility
Date Release Discovered: 06/16/2020	API# (if applicable): 30-015-43636

Unit Letter	Section	Township	Range	County
D	17	26S	30E	Eddy

Surface Owner: State X 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)							
Crude Oil	Volume Released (bbls):	Volume Recovered (bbls):					
X Produced Water	Volume Released (bbls): 22	Volume Recovered (bbls): 22					
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No					
Condensate	Volume Released (bbls)	Volume Recovered (bbls)					
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)					
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)					

Cause of Release:

Pinhole leak developed on water line causing 22bbl of produced water to be released into the lined secondary containment. All fluids were recovered with a vacuum truck.

Page	2
1 age	4

Oil Conservation Division

Incident ID	NRM2017643736
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
Yes X No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

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

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

 \mathbf{X} The impacted area has been secured to protect human health and the environment.

X Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

X All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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: Lynda Laumbach	Title: Environmental Specialist
Signature: Jorda Jambach	Date: <u>06/25/2020</u>
email: Lynda.Laumbach@wpxenergy.com	Telephone: (575)725-1647
entuit	
OCD Only	·

Received by OCD: 8/18/2023 7:32:08/AMI Form C-141 State of New Mexico

Oil Conservation Division

	Page 202 0J 3	0 7
cident ID		
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Application ID

Site Assessment/Characterization

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

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

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

	Characterization Report	Checklist: Eac	h of the	following	g items musi	t be include	d in th	e report
--	-------------------------	----------------	----------	-----------	--------------	--------------	---------	----------

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
 Field data
 Data table of soil contaminant concentration data
 Depth to water determination
 Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
 Boring or excavation logs
 Photographs including date and GIS information
 Topographic/Aerial maps

Laboratory data including chain of custody

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

Received by OCD: 8/18/202	3 7:32:08 AM State of New Mexico		Page 183 0			
	Oil Conservation Division		Incident ID			
Page 4	On Conservation Division		District RP			
			Facility ID			
			Application ID			
regulations all operators are republic health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name: Signature:	mation given above is true and complete to the equired to report and/or file certain release no tent. The acceptance of a C-141 report by the te and remediate contamination that pose a the a C-141 report does not relieve the operator o	tifications and perform c OCD does not relieve the reat to groundwater, surfa f responsibility for comp 	orrective actions for rele e operator of liability sh ace water, human health liance with any other fe	eases which may endanger nould their operations have n or the environment. In ederal, state, or local laws		
OCD Only						
Received by:		Date:				

Received by OCD: 8/18/2023 7:32:08/AMI Form C-141 State of New Mexico

Page 5

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

<u>Remediation Plan Checklist</u> : Each of the following items must be	included in the plan.
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation point: Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.1 Proposed schedule for remediation (note if remediation plan time 	2(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around prodeconstruction.	oduction equipment where remediation could cause a major facility
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 complet rules and regulations all operators are required to report and/or file c which may endanger public health or the environment. The acceptar liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local la	ertain release notifications and perform corrective actions for releases nee of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, neceptance of a C-141 report does not relieve the operator of
Printed Name:	Title:
Signature: forder tomback	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
Approved Approved with Attached Conditions of A	Approval Denied Deferral Approved
Signature:	Date:

ceived by O	CD: 8/18/	/2023 71326	80AM							Page 185 of 3
District I				St.	ote of	New Mex	NM OIL			
District I State of I I625 N. French Dr., Hobbs, NM 88240 Energy Minerals a District II Energy Minerals a							Resources	ESIA DIST		Form C-14 Revised August 8, 201
811 S. First St., Artesia, NM 88210							MA	Y 05 2	2017	to appropriate District Office in
District III 1000 Rio Brazos Road, Aztec, NM 87410 Oil Conser								Submi	ст сору ас	cordance with 19.15.29 NMAC
<u>vistrict IV</u> 220 S. St. Fran	cis Dr., Santa	a Fe, NM 87505	5			St. Franc		ECEIVE	Ð	
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Unit Letter	Section	Township	Range	Fect from the		N OF RE	Feet from the	East/Wes	at Line	County
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			La	atitude: 32.0492				'7W		
Type of Rele	ace Draduz	und Water			URE	OF REL	EASE Release: 11 Bbls	<u></u>	Valum	e Recovered: 6 Bbls
Source of Re							lour of Occurrenc			nd Hour of Discovery
Flowline						5/2/2017	THE O		5/2/20	17 - 11:00 hrs MT
Was Immedia	ate Notice (Yes [No 🖾 Not R	eouired	If YES, To Whom? NMOCD Crystal Weaver & Michael Bratcher, BLM Shelly Tucker				
By Whom? I	Carolina Bia					Date and Hour: 5/3/17- 12:42 hrs MT				
Was a Water	course Read	ched?				If YES, Volume Impacting the Watercourse.				
		L	Yes 🛛	3 No		N/A				
If a Watercou	urse was Im	pacted, Descr	ibe Fully.	* N/A						
<u> </u>										
Describe Cat	ise of Probl	lem and Reme	dial Actie	n Taken.*						
										ntainment. There was a hole
	right next	to a hamme	r union, a	and approximate	ly 5 bb	is of water v	was spilled onto	an access	road. 1	This spill did not impact any
vegetation.										
Describe Arc	a Affected	and Cleanup	Action Ta	ken.*	,		· · · · ·			
The impacted	i area was r	manned with a	Trimble	and will be scrane	d off T	he area will b	e sampled for BT	EX. TPH.	and chic	orides in accordance with NM
				lls, and Relcases.						
I harahy cart	ify that the	information a	iven abou	a is true and com	late to t	he hest of my	knowledge and u	nderstand	that pur	suant to NMOCD rules and
regulations a	Il operators	are required	o report a	nd/or file certain	release n	otifications a	nd perform correct	tive action	is for rel	eases which may endanger
public health	or the envi	ironment. The	acceptan	ce of a C-141 rep	ort by th	e NMOCD m	narked as "Final R	eport" doe	s not rel	lieve the operator of liability
should their or the enviro	operations i nment. In a	nave failed to addition. NM(adequater	y investigate and i ptance of a C-141	remediai report d	e contaminat	ton that pose a thr	eat to grou	no wate lity for c	r, surface water, human health compliance with any other
		ws and/or reg			**					
Kanlina Blancy					OIL CONSERVATION DIVISION					
Signature:								<i>(</i>		1 h. h
Printed Name: Karolina Blaney						Approved by Environmental Specialis:				
Title: Enviro						Approval Da	ite: 5/8/17		piration	Date: N/A
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E-mail Addr	ess: Karoli	na.hlancy@w				Conditions o	atta	cho	1	Attached
Date: 5/4/2				: 970-589-0743		- ou				
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Page 3

Oil Conservation Division

Incident ID	NAB1712952339
District RP	2RP-4198
Facility ID	
Application ID	

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Site Assessment/Characterization

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

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

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
 Field data
- Data table of soil contaminant concentration data
- $\overline{\mathbf{V}}$ Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- ✓ Topographic/Aerial maps
- ☑ Laboratory data including chain of custody

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

eceived by OCD: 0/10/2025	7:32:08 AM State of New Mexico			Page 187 of
			Incident ID	NAB1712952339
age 4	Oil Conservation Divisi	on	District RP	2RP-4198
			Facility ID	
			Application ID	
public health or the environment failed to adequately investigate a	uired to report and/or file certain release t. The acceptance of a C-141 report by and remediate contamination that pose a C-141 report does not relieve the operato mbach	the OCD does not reli threat to groundwate or of responsibility for	eve the operator of liability shows a surface water, human health compliance with any other for nmental Specialist	hould their operations have h or the environment. In
email: lynda.laumbach@			75-725-1647	

Received by OCD: 8/18/2023 7:32:08/AMI Form C-141 State of New Mexico

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Oil Conservation Division

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Incident ID	NAB1712952339
District RP	2RP-4198
Facility ID	
Application	n ID

Remediation 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 Signature: Lynda Laumbach Gwpxenergy.com Title: Environmental Specialist Date: 06/01/2021 Telephone: 575-725-1647
OCD Only
Received by: Date:
Approved Approved with Attached Conditions of Approval Denied Deferral Approved
Signature: Ashley Maxwell Date: 3/27/2023
Variance approved for sampling every

500 sq feet.

WSP USA

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

June 1, 2021

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

Re: Remediation Work Plan RDX 17 Federal #36H/RDX 17-25 Incident Number NRM2017643736 and NAB1712952339 Eddy County, New Mexico

To Whom it May Concern:

WSP USA Inc. (WSP) (formerly LT Environmental, Inc.), on behalf of WPX Energy Permian, LLC. (WPX), presents the following Remediation Work Plan detailing site assessment and sampling activities completed to date and proposing actions to address impacted soil resulting from two releases of produced water at the RDX 17 (Site). The Site is located in Unit D, Section 17, Township 26 South, Range 30 East, in Eddy County, New Mexico (Figure 1). Based on field observations, field screening activities, and laboratory analytical results from soil sampling activities, WPX is submitting this Remediation Work Plan, describing sampling activities that have occurred and proposing additional remediation activities.

RELEASE BACKGROUND

Incident Number NRM2017643736

On June 16, 2020, a pinhole developed on a water line causing approximately 22 barrels (bbls) of produced water into a lined secondary containment. The fluids were recovered, and a subsequent visual inspection of liner integrity determined the liner was not in working condition. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on June 25, 2020 and was subsequently assigned Incident Number NRM2017643736.

Incident Number NAB1712952339

On May 2, 2017, a corroded flowline resulted in the release of approximately 11 barrels (bbls) of produced water into a lined containment. A breach next to a hammer union allowed approximately 5 bbls to escape the containment, flowing into the pasture, onto an adjacent access road, and pipeline right-of-way. A hydro-vacuum truck was dispatched to the Site to recover free liquids. Approximately 6 bbls of produced water were recovered. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and

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Corrective Action Form C-141 (Form C-141) on May 5, 2017 and was subsequently assigned Incident Number NAB1712952339.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on Form C-141, Site Assessment/Characterization Form. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based a boring that was drilled by WPX on December 8, 2020, located approximately 0.4 miles east of the Site. Using a truck mounted drill rig equipped with hollow stem auger, the soil boring was advanced to a total depth of 110 feet bgs. No water was observed within the soil boring after at least 72 hours and the boring was plugged and abandoned. The boring log is included as Attachment 1.

CLOSURE CRITERIA

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

Additionally, the top four feet of reclaimed surface in the affected pasture must be comprised of non-waste containing, uncontaminated earthen material exhibiting chloride concentrations below 600 mg/kg, which was applied per NMAC 19.15.29.13.D (1), or natural background chloride concentrations if they exceed 600 mg/kg. A reclamation standard of 100 mg/kg of TPH was also applied to the affected pasture.

DELINEATION SOIL SAMPLING ACTIVITIES

Incident Number NAB1712952339

On August 27, 2020, WSP conducted Site assessment and delineation soil sampling activities. Six potholes (PH01 through PH06) were advanced via heavy equipment within the release extent as described on the Form C-141 to confirm the presence or absence of impact to soil at depth.

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District II Page 3

Delineation soil samples were collected at depths ranging from approximately 1 foot to 6 feet bgs. At least three discrete soil samples, which included the highest field screening result and the terminus, were collected from the potholes based on field screening results for volatile aromatic hydrocarbons and chloride. Soil samples were screened for volatile aromatic hydrocarbons and chloride. Soil samples were screened for volatile aromatic hydrocarbons and chloride photo-ionization detector (PID) and Hach[®] chloride QuanTab[®] test strips, respectively. The lithologic/soil sampling logs for the boreholes are included in Attachment 2. Soil sample locations are depicted on Figure 2. Photographic documentation during assessment and delineation activities is provided in Attachment 3.

Incident Number NRM2017643736 and NAB1712952339

On October 29, 2020, WSP utilized a Shaw Tool, Ltd Portable Core Drill to install two corehole delineation points (CH01 and CH02) to determine the vertical extent of impact within the documented breached liner area to confirm vertical delineation of any impacts to soil under the containment. The coreholes were advanced to depths ranging from 6 feet to 8.5 feet bgs. Corehole soil samples were field screened, at minimum, every 2-foot interval for volatile aromatic hydrocarbons and chloride utilizing a calibrated PID and Hach® chloride QuanTab® test strips. Soil samples from CH01 and CH02 were collected from the soil interval with the highest field screening result and the terminus of the corehole. Field screening results and observations for each delineation soil sample were recorded on lithologic/soil sampling logs which are included in Attachment 2. The corehole soil sample locations are presented on Figure 2. The breached area within the lined containment was bonded and repaired by WPX in an effort to restore the integrity of the liner.

SOIL COLLECTION METHOD AND ANALYTICAL RESULTS

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

Laboratory analytical results for the potholes indicated that benzene, BTEX, TPH-GRO/TPH-DRO and TPH concentrations were compliant with the Closure Criteria and reclamation criteria in all delineation soil samples. Laboratory analytical results potholes indicated that chloride concentrations exceeded the reclamation criteria in delineation soil samples PH01, PH01A, PH02, PH02A, PH03, PH03A and PH06A. Laboratory analytical results for the corehole soil samples CH01 and CH02 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH and chloride concentrations were compliant with the Closure Criteria. Furthermore, off-pad impacts are delineated vertically and laterally to the east by corehole soil samples CH01 and CH02. The laboratory analytical results are summarized on Table 1 and laboratory analytical reports are included in Attachment 4. vsp

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PROPOSED WORK PLAN

Because PH06 contained chloride concentrations exceeding 600 mg/kg and was positioned outside of the release footprint, WPX proposes to investigate naturally occurring background concentrations for chloride. The background sampling area will continue to be no closer than 50 feet but no farther than 100 feet from the lateral and horizontal extent of the release. Laboratory analytical results of the chloride background concentrations may be used drive remediation and continued delineation efforts if concentrations are consistent within the background buffer or greater than the reclamation chloride concentration limit of 600 mg/kg. Figure 3 represents the background sampling area buffer that WPX will investigate.

If chloride background levels are consistently less than the 600 mg/kg for chloride, WPX will use the reclamation criteria off pad. If the reclamation standard is applied, WPX estimates up to 1,332 cubic yards of impacted soil exists at the Site within the top 4 feet of the subsurface. Due to the nature of the release (produced water containing chloride) and chloride impacts to approximately 4 feet bgs, WSP proposes excavation of the top 4 feet of the subsurface to the maximum extent allowed based on presence of active pipeline infrastructure. WSP will oversee excavation activities to remediate impacted soil as indicated by visual observations, field screening results, and depths consistent with delineation laboratory analytical results. ISoil will be excavated pursuant to NMAC 19.15.29 to ensure extent of the contaminated soils above Table I thresholds has been identified and removed. Excavated soil will then be transferred to (a) a New Mexico approved landfill facility for disposal or (b) an on-site, lined treatment cell. Non-waste containing soil, as defined by "Procedures for Implementation of the Spill Rule" (September 6, 2019), will then be used to backfill the excavation. If the on-site treatment is selected, non-waste containing soils will be treated soils with each confirmation sample testing below the most protective concentrations in Table I of 19.15.29.12 NMAC and representing no more than 100 cubic yards. Samples pulled from the treatment cell will be from the bottom 12" of the soil and evenly spaced in a grid like pattern.

Remediation associated with Incident Number NAB1712952339 will be completed through excavation of all remaining impacted soil within the release footprint and near PH06 containing chloride concentrations above the observed background concentrations or reclamation standard for the top four feet.

Additional lateral delineation is required for the release associated with Incident Number NRM2017643736 to confirm the release did not impact areas north, east, and south outside of the containment. Delineation activities will be performed simultaneously with excavation activities. If laboratory analytical results from additional delineation soil samples are compliant with the Closure Criteria or background concentrations, WPX will proceed with a closure request for Incident Number NRM2017643736.

PROPOSED SAMPLING

WPX is requesting a variance to the 200 square foot confirmation sampling requirement for the areas to be excavated, which would require an estimated 35 floor samples within the release extent, excluding sidewall samples.



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Due to the large extent of the impacted area, WPX proposes increasing the confirmation sampling size to collecting a 5-point composite sample to represent each 500 square foot area. An estimated 14 confirmation samples will be collected from the excavation floor following the completion of remediation activities. Figure 4 illustrates the proposed sampling grids overlaying the representative excavation boundary, which assumes the entirety of the release footprint may need to be addressed. Each square in the grid represents a 500 square foot composite sampling area. Figure 4 does not illustrate sidewall sample locations, which will also be collected to represent 500 square feet sampling areas.

PROPOSED SCHEDULE

WPX will complete the additional proposed remediation activities and provide a follow-up report detailing all remediation activities and a request for closure or deferral within 90 days of the date of approval of this work plan by NMOCD.

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

Sincerely,

WSP USA Inc.

nyn S. Holy -

Joseph Hernandez Associate Consultant, Geologist

Ashley L. ager

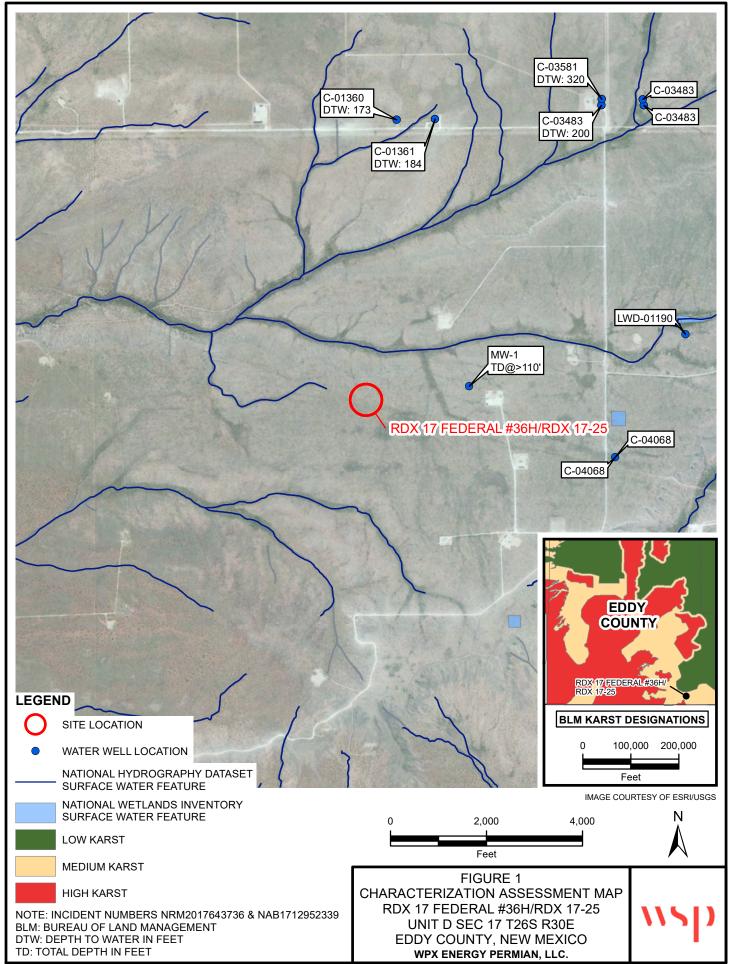
Ashley L. Ager, P.G. Managing Director, Geologist

cc: Lynda Laumbach, WPX Robert Hamlet, NMOCD Victoria Venegas, NMOCD Jim Amos, Bureau of Land Management

Attachments:

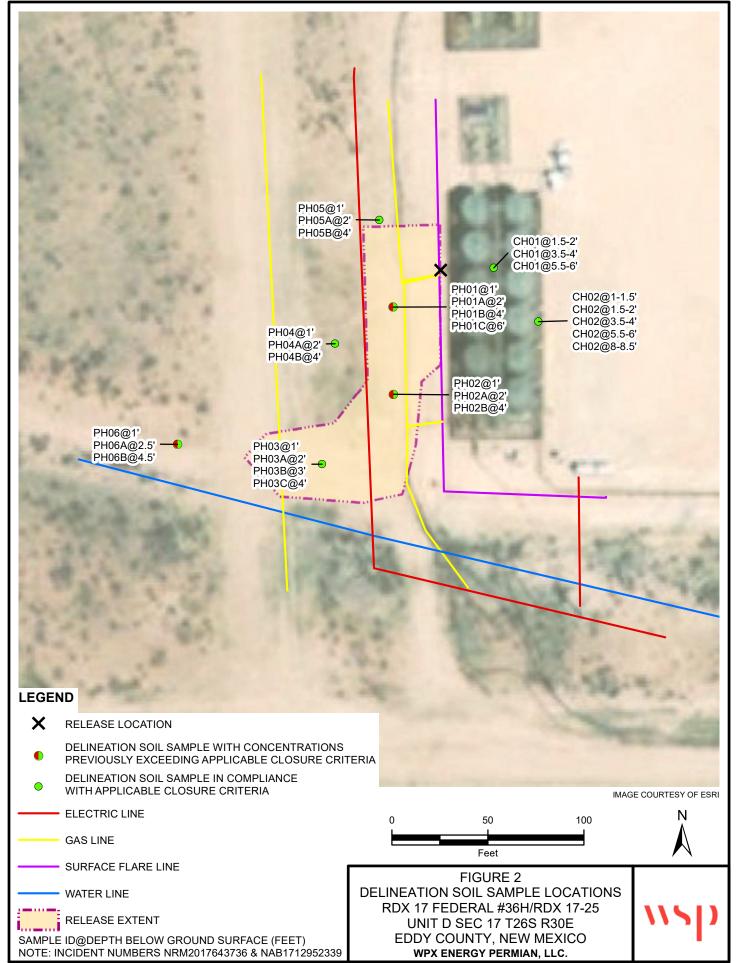
- Figure 1 Site Location Map
- Figure 2 Delineation Soil Sample Locations
- Figure 3 Buffer Sampling Area
- Figure 4 Proposed Sampling Area
- Table 1Soil Analytical Results
- Attachment 1 Boring Log
- Attachment 2 Lithologic/Sampling Log
- Attachment 3 Photographic Log
- Attachment 4 Laboratory Analytical Reports

FIGURES



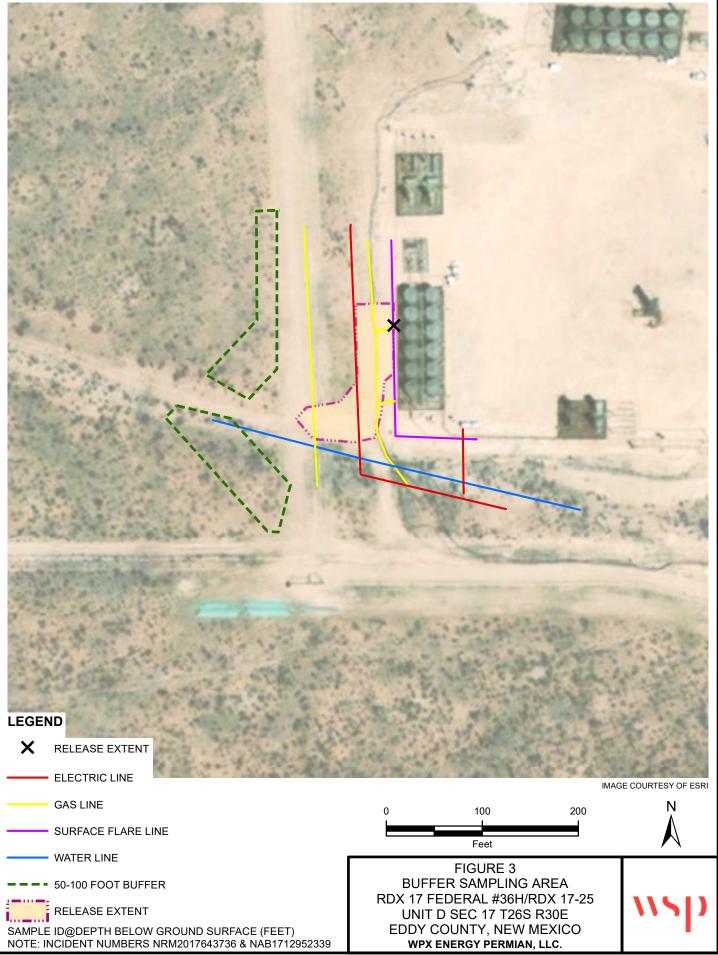
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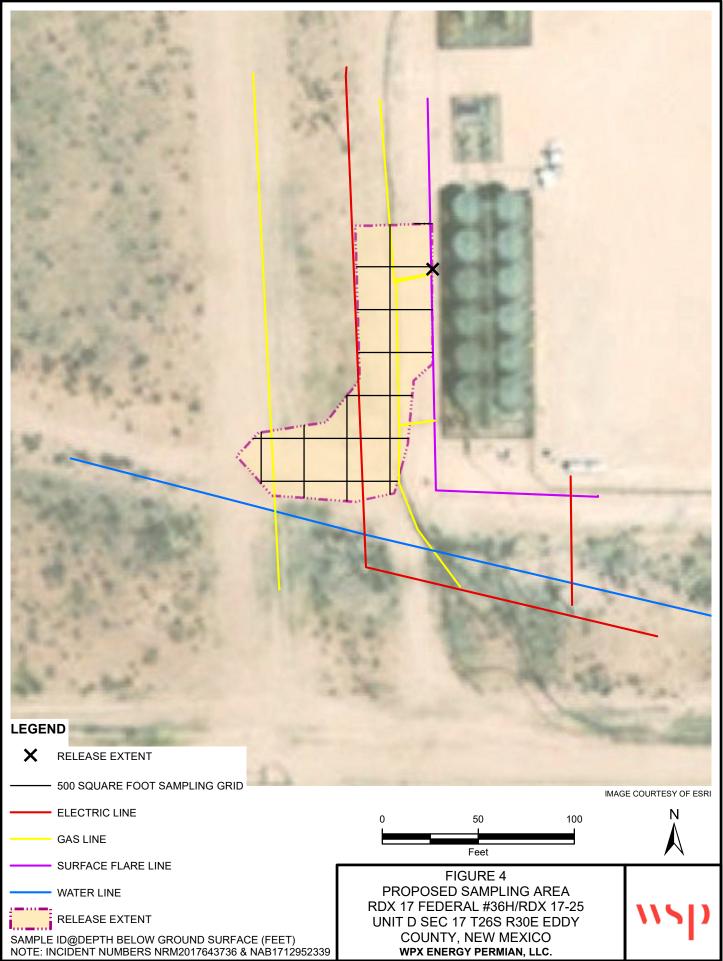
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TABLES

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Table 1

Soil Analytical Results RDX 17 Federal #36H/RDX 17-25 Incident Number NRM2017643736 and NAB17129523392 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1	Closure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Samp	les									
PH01	08/27/2020	1	< 0.00198	< 0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	12,300*
PH01A	08/27/2020	2	< 0.00200	< 0.00200	<50.1	<50.1	<50.1	<50.1	< 50.1	3,750*
PH01B	08/27/2020	4	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	3,720
PH01C	08/27/2020	6	< 0.00198	< 0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	6,480
PH02	08/27/2020	1	< 0.00199	< 0.00199	<49.9	69.5	<49.9	69.5	69.5	2,820*
PH02A	08/27/2020	2	< 0.00199	< 0.00199	<50.1	<50.1	<50.1	<50.1	< 50.1	17,700*
PH02B	08/27/2020	4	< 0.00200	< 0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	3,180
PH03	08/27/2020	1	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	1,890*
PH03A	08/27/2020	2	< 0.00202	< 0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	1,180*
PH03B	08/27/2020	3	< 0.00201	< 0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	512
PH03C	08/27/2020	4	< 0.00198	< 0.00198	<50.1	<50.1	<50.1	<50.1	< 50.1	227
PH04	08/27/2020	1	< 0.00200	< 0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	55.4
PH04A	08/27/2020	2	< 0.00200	< 0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	23.1
PH04B	08/27/2020	4	< 0.00198	< 0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	<9.92
PH05	08/27/2020	1	< 0.00198	< 0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	53.5
PH05A	08/27/2020	2	< 0.00200	< 0.00200	<50.1	<50.1	<50.1	<50.1	< 50.1	16.1
PH05B	08/27/2020	4	< 0.00199	< 0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	18.0
PH06	08/27/2020	1	< 0.00200	< 0.00200	<50.2	<50.2	<50.2	<50.2	< 50.2	483
PH06A	08/27/2020	2.5	< 0.00202	< 0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	1,200*
PH06B	08/27/2020	4.5	< 0.00201	< 0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	969

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Table 1

Soil Analytical Results RDX 17 Federal #36H/RDX 17-25 Incident Number NRM2017643736 and NAB17129523392 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1	Closure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
CH01	10/29/2020	1.5 - 2	< 0.00201	< 0.00201	<50.1	79.6	<50.1	79.6	79.6	344
CH01	10/29/2020	3.5 - 4	< 0.00200	< 0.00200	<13.9	16.3	<11.5	16.3	16.3	3,230
CH01	10/29/2020	5.5 - 6	< 0.00202	< 0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	606
CH02	10/29/2020	1 - 1.5	< 0.00201	0.107	<50.2	<50.2	<50.2	<50.2	<50.2	342
CH02	10/29/2020	1.5 - 2	< 0.0196	0.594	88.2	748	59.4	896	896	660
CH02	10/29/2020	3.5 - 4	< 0.00202	0.647	60.4	298	<50.2	358	358	212
CH02	10/29/2020	5.5 - 6	< 0.00200	< 0.00200	<50.2	99.0	<50.2	99.0	99.0	148
CH02	10/29/2020	8 - 8.5	< 0.00202	< 0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	157

Notes:

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

GRO - gasoline range organics

DRO - diesel range organics

ORO - oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

NE - Not Established

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

BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard

* - indicates sample was collected in area to be reclaimed after remediation is complete;

closure criteria for chloride concentration in the top 4 feet of soil is 600 mg/kg

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Gravel Pacl	k Type: 0/20 Sar	nd	Gravel Pac		ags		Seal Type: No	one	Seal Depth Interval: None	Latitude: 32.0496	56		
Casing Typ	e:	Diameter:		Depth Inter	val:		Boring Total	Depth (ft. BGS		Longitude:			
PVC Screen Typ	e:	2-inch Slot:		0-105 ft Diameter:		Interval:	Well Total D	epth (ft. BGS):	10	-103.904 Depth to Water (ft. BTOC):	054 DTW Date:		
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Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	NSCS	Sample ID	Litholog	y/Remarks	We Compl		
$ \begin{array}{c} 0\\ 5\\ 10\\ 15\\ 20\\ 25\\ 30\\ 35\\ 40\\ \end{array} $	NM	L	D	N	Ν	NM	CE	NS	Buff to pale pin	k colored caliche	-		
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80 85 90	NM	L	D	N	N	NM	SW-SM SW-SC	NS		ge well-graded sand = and clay =	-		
95 100 105	NM	L	D	N	N	NM	SP	NS		range poorly graded - or silt - TD: 110' bgs -	- -		

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Gig West Stevens Street Carisbad, New Mexico B3220 Sile Name: RXV 17 Edetail 360HR0X 17.25 Incident Number: TE03420010 LITHOLOGIC / SOIL SAMPLING LOG Laditong Classical Streening: Chloride Method: Back Hoe .aditong Field Screening: Chloride Hole Diameter: Not applicable Method: Back Hoe .aditong Field Screening: Chloride Not applicable 8 feet .comments: Chloride Chloride Not applicable 8 feet .comments: Chloride Sample Begt Depth (ft bgs) Depth (ft bgs)<					ws	P 05A						
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comments: Chloride field screening was conducted with a 1.4 dilution of soil to distilled water. Values reported do not include a correction factor. capor was not field screened (NA), because the laboratory analytical results reported BTEX and TPH concentrations below Closure Criteria for all initial soil samples and grad grad grad grad grad grad grad gra	0	103 9110	5389W			ening:						
entropy Provided Depth (ft bgs) Depth (ft bgs) <td></td> <td></td> <td></td> <td>ing was cond</td> <td></td> <td>a 1:4 dilutio</td> <td>on of soil t</td> <td></td> <td></td> <td></td> <td></td> <td></td>				ing was cond		a 1:4 dilutio	on of soil t					
Dry 9,668 NA No PH01 1 1 1 SP-SM brown, poorly-graded sand (f.) with gravel to cobble sized gravith no plasticity or odor, including root fragments Dry 9,668 NA No PH01 1 1 1 1 SP-SM brown, poorly-graded sand (f.) with gravel to cobble sized gravith no plasticity or odor, including root fragments Dry 7,028 NA No PH01A 2 2 cche	apor was not fie	eld screene	ed (NA),	because the	laboratory a	nalytical res		ed BTEX and	TPH concentrations	below Closure	Criteria for all initial soil sample	es.
Dry 9,668 NA No PH01 1 - 1 SP-SM brown, poorly-graded sand (f.) with gravel to cobble sized gravel to cobble sized gravel to cobble sized inclusions; odorless; Dry 7,028 NA No PH01A 2 - 2 cche cche cmentation decreases with depth Dry 7,028 NA No PH01A 2 - 2 cche cche cmentation decreases with depth Dry 8,228 NA No PH01B 4 - 4 cche Dry 7,604 NA No PH01B 4 - 4 cche Dry >2,464 NA No PH01C 6 - 6 cche	Content Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth	(ft bgs)	USCS/Rock Symbol		I	Lithology/Re	emarks	
Dry 7,028 NA No PH01A 2 - 2 cche with gravel to cobble sized inclusions; odorless; cementation decreases with depth Dry 8,228 NA No PH01B 3 - 3 cche Dry 7,604 NA No PH01B 4 - 4 cche Dry 7,604 NA No PH01B 4 - 4 cche Dry >2,464 NA No PH01C 5 - 5 cche Dry >2,464 NA No PH01C 6 - 6 cche - - - - - - - - - Dry >2,464 NA No PH01C 6 - 6 cche - - - - - - - 6 - 6 - - - - - - - - - - - - - - -	Dry 9,668	NA	No	PH01	1		SP-SM					rains
Dry 7,604 NA No PH01B 4 $-$ 4 cche Dry >2,464 NA No 5 $-$ 5 cche Dry >2,464 NA No PH01C 6 $-$ 6 cche Dry >2,464 NA No PH01C 6 $-$ 6 cche $ -$ Dry >2,464 NA No PH01C 6 $ -$	Dry 7,028	NA	No	PH01A	2	2	cche	with grave	el to cobble size	ed inclusion		nd (f.
Dry >2,464 NA No $5 - 5$ cche Dry >2,464 NA No PH01C $6 - 6$ cche 	Dry 8,228	NA	No		3	3	cche					
Dry >2,464 NA No PH01C 6 - 6 cche	Dry 7,604	NA	No	PH01B	4	4	cche					
	Dry >2,464	NA	No		5	5	cche					
Dry 2,208 NA No 7.5 7.5 cche well-cemented caliche shelf; increased finer grains	Dry >2,464	NA	No	PH01C	6	6	cche					
	Dry 2,208	NA	No		7.5	7.5	cche	well-ceme	ented caliche sh	nelf; increas	ed finer grains	
Dry 1,424 NA No 8 8 cche well-cemented caliche shelf)rv 1 4 2 4	NΔ	No		8	8	cche	well-ceme	nted caliche st	helf		
Total Depth/Back Hoe Refusal			110		0					1911		

	~ ^ ^			Ca	508 West rlsbad, Ne	SP USA Stevens S w Mexico	88220	Pothole Name:Date:PH028/27/2020Site Name: RDX 17 Federal #36H/RDX 17-25Incident Number: NRM2017643736 and NAB1712952339WSP Job Number: TE034820010
Lat/Lo	ng:	LITH	OLO	GIC / SOII	Field Scre		G	Logged By: Anna Byers Method: Back Hoe Hole Diameter: Total Depth:
32.048	370579N, ²				Chloride			Not applicable 7.25 feet
				0				to distilled water. Values reported do not include a correction factor. rted BTEX and TPH concentrations below Closure Criteria for all initial soil samples.
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol	Lithology/Remarks
Dry Dry	9,668 4,392	NA	No	PH02 PH02A	1	0 1 2 2	SP-SM	brown, poorly-graded sand (f.) with gravel to cobble sized grains with no plasticity or odor, including root fragments light brown to tan colored caliche; moderately cemented sand (f.) with gravel to cobble sized inclusions; odorless; cementation decreases with depth
Dry	2,652	NA	No		3	3	cche	
Dry	3,160	NA	No	PH02B	4	4 	cche	
Dry	-	NA	No		5	5 	cche	
Dry	232	NA	No		6	6 	cche	
Dry	820	NA	No		7.25	7.25		well-cemented caliche shelf; increased finer grains
						Tota	I Depth/	/Back Hoe Refusal

	\\'	5)	e Car	WS 508 West S Isbad, Nev	P USA Stevens S w Mexico	Street 88220		Pothole Name: PH03 Site Name: RDX 17 Fe Incident Number: NRN		Date: 8/27/2020 H/RDX 17-25 36 and NAB1712952339	
		LITH	OLOO	GIC / SOII	SAMPL	ING LO	G		WSP Job Number: TE Logged By: Anna Byer) Method: Back Hoe	
Lat/Lo 32.048	ng: 3606184N,	103.911	17449V	V	Field Scree Chloride	ening:			Hole Diameter: Not applicable		Total Depth: 4 feet	
Comm	ents: Chlo	oride field	screen	ing was cond	ucted with a			o distilled wa	ater. Values reported d			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	ock			hology/R		
Dry	824	NA	No	PH03	1		SP-SM	with no p	oorly-graded sand lasticity or odor, ir		gravel to cobble sized root fragments	grains
Dry Dry	1,024	NA	No No	PH03 PH03B	2	2	SP-SM					
Dry	<120	NA	No	PH03C	4	4	SP-SM	tal Depth				

		_	_					Pothole Name: Date:
					WS	SP USA		PH04 8/27/2020
				Ę	508 West	Stevens S	Street	Site Name: RDX 17 Federal #36H/RDX 17-25
				Cai	rlsbad, Ne	w Mexico	88220	Incident Number: NRM2017643736 and NAB1712952339
								WSP Job Number: TE034820010
		LITH	OLO	GIC / SOII			G	Logged By: Anna Byers Method: Back Hoe
Lat/Lo	0	100 0444	-404144		Field Scree	ening:		Hole Diameter: Total Depth:
	877848N, ⁻ ents: Chlo				Chloride	a 1·4 dilutio	on of soil t	Not applicable 7.75 feet to distilled water. Values reported do not include a correction factor.
								ted BTEX and TPH concentrations below Closure Criteria for all initial soil samples.
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
				0,		0		
Dry	<112	NA	No	PH04	- 1 -	1	SP-SM	brown, poorly-graded sand (f.) with gravel to cobble sized grains with no plasticity or odor, including root fragments
Dry	<112	NA	No	PH04A	2	2 	SP-SM	
Dry	<112	NA	No		3	3 	SP-SM	
Dry	<120	NA	No	PH04B	4	4 		light brown to tan colored caliche; poorly cemented sand (f.) with gravel to cobble sized inclusions; odorless; cementation decreases with depth
Dry	<120	NA	No		6	6 	cche	
Dry	<120	NA	No		7.75	7.75		well-cemented caliche shelf; increased finer grains
							10	otal Depth

					ws	P USA		Pothole Name: Date:	
								PH05 8/27/2020	
					508 West S rlsbad, Ne	Stevens S	Street	Site Name: RDX 17 Federal #36H/RDX 17-25	
				Cal	risbad, ive		88220	Incident Number: NRM2017643736 and NAB1712952339	
								WSP Job Number: TE034820010	
		LITH	OLO	GIC / SOII			G	Logged By: Anna Byers Method: Back Hoe	
Lat/Lo 32 048	ng: 395548N, <i>*</i>	103 9110	764.3W		Field Scree Chloride	ening:		Hole Diameter: Total Depth: Not applicable 8 feet	
				ing was cond		a 1:4 dilutio	on of soil t	b distilled water. Values reported do not include a correction factor.	
							sults report	ed BTEX and TPH concentrations below Closure Criteria for all initial soil samp	les.
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol	Lithology/Remarks	
Dry	<120	NA	No	PH05	- 1	0 1 1	SP-SM	brown, poorly-graded sand (f.) with gravel to cobble sized g with no plasticity or odor, including root fragments light brown to tan colored caliche; moderately cemented sa	
Dry	<120	NA	No	PH05A	2	2	cche	with gravel to cobble sized inclusions; odorless; cementation decreases with depth	ina (i.)
Dry	<120	NA	No		3	3	cche		
Dry	<120	NA	No	PH05B	4	4 5	cche		
Dry	<120	NA	No		6	6 6 7	cche		
Dry	188	NA	No		8	8		consolidated caliche; increase of finer sand grains	
							10	al Depth	

			_							
								Pothole Name: Date:		
					WS	P USA		PH06 8/27/2020		
ľ					508 West S	Stevens S	treet	Site Name: RDX 17 Federal #36H/RDX 17-25		
				Ca	rlsbad, Ne	w Mexico	88220			
								WSP Job Number: TE034820010		
		LITH	OLO	GIC / SOI	L SAMPL	ING LO	G	Logged By: Anna Byers Method: Back Hoe		
Lat/Lo	ng:				Field Scree			Hole Diameter: Total Depth:		
	32.04865400N, 103.91143600W Chloride Not applicable 6 feet									
							ults report	to distilled water. Values reported do not include a correction factor. rted BTEX and TPH concentrations below Closure Criteria for all initial soil samples.		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks		
Dry	232	NA	No	PH06	1	0				
Dry	1,424	NA	No	PH06A	2.5	2.5	cche			
Dry	1,024	NA	No		3	3	cche			
Dry	844	NA	No	PH06B	4.5	4.5	cche			
Dry	232	NA	No		6	6	cche			
1								otal Depth		

					ws	P USA		Pothole CH01	e Name:	Date: 10/29/2020
				5	08 West S	Stevens S	treet	Site Na	me: RDX 17 Federal #3	36H/RDX 17-25
				Cai	lsbad, Ne	w Mexico	88220			3736 and NAB1712952339
									ob Number: TE0348200	
		LITH	OLOC	GIC / SOIL			G		l By: Anna Byers	Method: Shaw Core Drill
Lat/Lo	ng: 388628N, 1	103 0108	8443101		Field Scree	ening:		Hole D Not ap	ameter:	Total Depth:
					Chloride ucted with a	a 1:4 dilutio	on of soil			6 feet clude a correction factor.
										sure Criteria for all initial soil samples.
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol		Lithology	/Remarks
Dry	1,740	NA	No	CH01	0		cche	Caliche decrea and sand (c.),		with depth, tan colored, gravel
Dry	224	NA	No	CH01	4	4	SP	(c.), moist, ligh	t brown, no odor	
Dry	364	NA	No	CH01	6	6			r cemented, tan gra	avel and sand (c.)
							То	al Depth		

		_			10				Pothole Name:		Date:	
						ISP USA			CH02		10/29/2020	
				į Ca	508 Wes	t Stevens S lew Mexico	Street		Site Name: RDX 17 Fee			
				<u> </u>	100000, 10		00220		Incident Number: NRM2017643736 and NAB1712952339 WSP Job Number: TE034820010			
		LITH	OLO	GIC / SOII	_ SAMP	LING LO	G		Logged By: Anna Byers		Method: Shaw Core Drill	
Lat/Lo	Lat/Long: Field Screening:								Hole Diameter:		Total Depth:	
	32.04880899N, 103.91080971W Chloride Comments: Chloride field screening was conducted with a 1:4 dilution of soil to distilled								Not applicable		8.5 feet	
											e Criteria for all initial soil samples.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs	(ft bas)	USCS/Rock Symbol		Lith	nology/R	lemarks	
Dry Dry	224 516	NA	No No	CH02 CH02	0 1 2	0 - 1 2 -		caliche,	well consolidated, ç	gravel po	porly sorted, no odor	
Dry	316	NA	No	CH02	3 4 5	- 3 - 4 - 4 - 5	SP	(c.), light	brown, mild odor			
Dry	148	NA	No	CH02	6	- 6 -	SP	(c.), light	brown, less odor			
Dry	120	NA	No	CH02	7 8	- 7 - 8			mod. cemented, no	odor		
							То	tal Depth				

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	PHOTOGRAPHIC LOG	
WPX Energy Permian,	RDX 17 Federal #36H/RDX 17-25	TE034820010
LLC.	Eddy County, New Mexico	

Photo No.	Date
1	August 27, 2020
	f the release area eation activities.

Photo No.	Date
2	August 27, 2020
	the release area ation activities.

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wsp

	PHOTOGRAPHIC LOG	
WPX Energy Permian,	RDX 17 Federal #36H/RDX 17-25	TE034820010
LLC.	Eddy County, New Mexico	



Photo No.	Data	
Photo No.	Date	
4	August 27, 2020	
Southwest view	of the Site during	
delineation activities.		
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		the second se

Released to Imaging: 8/22/2023 8:25:596AMI

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Certificate of Analysis Summary 671316

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Environment Testing Xenco

WSP USA, Dallas, TX

Project Name: RDX 17-25

Project Id:034820010Contact:Chris McKissonEthic Contact:Ethic Contact:

Project Location: Eddy County

 Date Received in Lab:
 Fri 08.28.2020 14:08

 Report Date:
 01.12.2021 16:10

Project Manager: Jessica Kramer

	Lab Id:	671316-0	01	671316-0	02	671316-0	003	671316-0	004	671316-0	05	671316-0	06
	Field Id:	PH01		PH01	-	PH01 B		PH01 C		PH02		PH02 A	
Analysis Requested			1- ft		2- ft			6- ft		1- ft			
	Depth:				-		4- ft					2- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL	,	SOIL		SOIL	
	Sampled:	08.27.2020	09:19	08.27.2020	09:39	08.27.2020	09:54	08.27.2020	12:29	08.27.2020	10:05	08.27.2020	10:15
BTEX by EPA 8021B	Extracted:	08.28.2020	16:51	08.28.2020	16:51	08.28.2020	16:51	08.28.2020	16:51	08.28.2020	16:51	08.28.2020	16:51
	Analyzed:	08.28.2020	23:27	08.28.2020	23:47	08.29.2020	00:07	08.29.2020	01:23	08.29.2020	01:44	08.29.2020	02:04
	Units/RL:	mg/kg	RL										
Benzene		< 0.00198	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00198	0.00198	<0.00199	0.00199	< 0.00199	0.00199
Toluene		< 0.00198	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00198	0.00198	<0.00199	0.00199	< 0.00199	0.00199
Ethylbenzene		< 0.00198	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00198	0.00198	<0.00199	0.00199	< 0.00199	0.00199
m,p-Xylenes		< 0.00395	0.00395	< 0.00399	0.00399	< 0.00399	0.00399	< 0.00397	0.00397	<0.00398	0.00398	< 0.00398	0.00398
o-Xylene		< 0.00198	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00198	0.00198	<0.00199	0.00199	< 0.00199	0.00199
Total Xylenes		< 0.00198	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00198	0.00198	<0.00199	0.00199	< 0.00199	0.00199
Total BTEX		< 0.00198	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00199	0.00199	< 0.00199	0.00199
Inorganic Anions by EPA 300	Extracted:	08.28.2020	15:05	08.28.2020	15:05	08.28.2020	15:05	08.28.2020	15:05	08.28.2020	15:05	08.28.2020	15:05
	Analyzed:	08.28.2020	19:44	08.28.2020	19:50	08.28.2020	19:55	08.28.2020	20:01	08.28.2020	20:17	08.28.2020	20:23
	Units/RL:	mg/kg	RL										
Chloride		12300	198	3750	50.1	3720	50.2	6480	49.5	2820	49.9	17700	198
TPH by SW8015 Mod	Extracted:	08.28.2020	17:15	08.28.2020	17:15	08.28.2020	17:15	08.28.2020	17:15	08.28.2020	17:15	08.28.2020	17:15
	Analyzed:	08.29.2020	03:14	08.29.2020	03:35	08.29.2020	03:55	08.29.2020	04:15	08.29.2020	04:56	08.29.2020	05:16
	Units/RL:	mg/kg	RL										
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.1	50.1	<49.9	49.9	<49.9	49.9	<49.9	49.9	<50.1	50.1
Diesel Range Organics (DRO)		<50.0	50.0	<50.1	50.1	<49.9	49.9	<49.9	49.9	69.5	49.9	<50.1	50.1
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.1	50.1	<49.9	49.9	<49.9	49.9	<49.9	49.9	<50.1	50.1
Total TPH		<50.0	50.0	<50.1	50.1	<49.9	49.9	<49.9	49.9	69.5	49.9	<50.1	50.1

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Certificate of Analysis Summary 671316

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Environment Testing Xenco

WSP USA, Dallas, TX

Project Name: RDX 17-25

Project Id:034820010Contact:Chris McKisson

Project Location: Eddy County

 Date Received in Lab:
 Fri 08.28.2020 14:08

 Report Date:
 01.12.2021 16:10

 Project Manager:
 Jessica Kramer

	Lab Id:	671316-0	007	671316-0	08	671316-0	009	671316-0	010	671316-0	011	671316-0	012
Analysis Requested	Field Id:	PH02 I	PH02 B			PH03 A		PH03 E	3	PH03 C	:	PH04	
Analysis Requested	Depth:	4- ft	4- ft			2- ft		3- ft		4- ft		1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL	,	SOIL		SOIL	
	Sampled:	08.27.2020	10:23	08.27.2020	10:47	08.27.2020	11:07	08.27.2020	11:16	08.27.2020	11:22	08.27.2020	14:33
BTEX by EPA 8021B	Extracted:	08.28.2020	16:51	08.28.2020	16:51	08.28.2020	16:51	08.28.2020	16:51	08.28.2020	16:51	08.28.2020	16:51
	Analyzed:	08.29.2020	02:24	08.29.2020	02:45	08.29.2020	03:05	08.29.2020	03:26	08.29.2020	03:46	08.29.2020	04:06
	Units/RL:	mg/kg	RL										
Benzene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00200	0.00200
Toluene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00200	0.00200
Ethylbenzene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00200	0.00200
m,p-Xylenes		< 0.00399	0.00399	< 0.00401	0.00401	< 0.00403	0.00403	< 0.00402	0.00402	< 0.00397	0.00397	< 0.00399	0.00399
o-Xylene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	<0.00198	0.00198	< 0.00200	0.00200
Total Xylenes		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00200	0.00200
Total BTEX		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00200	0.00200
Inorganic Anions by EPA 300	Extracted:	08.28.2020	15:05	08.28.2020	15:05	08.28.2020	15:05	08.28.2020	15:05	08.28.2020	15:05	08.28.2020	15:05
	Analyzed:	08.28.2020	20:29	08.28.2020	20:34	08.28.2020	20:51	08.28.2020	20:57	08.28.2020	21:02	08.28.2020	21:08
	Units/RL:	mg/kg	RL										
Chloride		3180	49.7	1890	49.9	1180	49.8	512	49.9	227	9.96	55.4	9.98
TPH by SW8015 Mod	Extracted:	08.28.2020	17:15	08.28.2020	17:15	08.28.2020	17:15	08.28.2020	17:15	08.28.2020	17:15	08.28.2020	17:15
	Analyzed:	08.29.2020	05:37	08.29.2020	05:57	08.29.2020	06:17	08.29.2020	06:37	08.29.2020	06:57	08.29.2020	07:18
	Units/RL:	mg/kg	RL										
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0	<50.1	50.1	<50.0	50.0
Diesel Range Organics (DRO)		<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0	<50.1	50.1	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0	<50.1	50.1	<50.0	50.0
Total TPH		<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0	<50.1	50.1	<50.0	50.0

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Certificate of Analysis Summary 671316

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Environment Testing Xenco

WSP USA, Dallas, TX

Project Name: RDX 17-25

Project Id:034820010Contact:Chris McKisson

Project Location: Eddy County

 Date Received in Lab:
 Fri 08.28.2020 14:08

 Report Date:
 01.12.2021 16:10

Project Manager: Jessica Kramer

	Lab Id:	671316-0	013	671316-0	14	671316-0)15	671316-0	016	671316-0	17	671316-0)18
Analysis Requested	Field Id:	PH04 /	A	PH04 1	3	PH05		PH05 A		PH05 B		PH06	
Analysis Requested	Depth:	2- ft		4- ft		1-		2-		4-		1-	
	Matrix:	SOIL		SOIL		SOIL		SOIL	,	SOIL		SOIL	
	Sampled:	08.27.2020	14:38	08.27.2020	14:44	08.27.2020	15:18	08.27.2020	15:23	08.27.2020	15:33	08.27.2020	16:37
BTEX by EPA 8021B	Extracted:	08.28.2020	16:51	08.28.2020	17:56	08.28.2020	17:56	08.28.2020	17:56	08.28.2020	17:56	08.28.2020	17:56
	Analyzed:	08.29.2020	04:27	08.29.2020	07:59	08.29.2020	08:20	08.29.2020	08:40	08.29.2020	09:01	08.29.2020	09:21
	Units/RL:	mg/kg	RL										
Benzene		< 0.00200	0.00200	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200
Toluene		< 0.00200	0.00200	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200
Ethylbenzene		< 0.00200	0.00200	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200
m,p-Xylenes		< 0.00399	0.00399	< 0.00396	0.00396	< 0.00396	0.00396	< 0.00399	0.00399	< 0.00398	0.00398	< 0.00401	0.00401
o-Xylene		< 0.00200	0.00200	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200
Total Xylenes		< 0.00200	0.00200	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200
Total BTEX		< 0.00200	0.00200	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200
Inorganic Anions by EPA 300	Extracted:	08.28.2020	15:05	08.28.2020	17:09	08.28.2020	17:09	08.28.2020	17:09	08.28.2020	17:09	08.28.2020	17:09
	Analyzed:	08.28.2020	21:13	08.28.2020	21:47	08.28.2020	22:04	08.28.2020	22:09	08.28.2020	22:15	08.28.2020	22:20
	Units/RL:	mg/kg	RL										
Chloride		23.1	9.98	<9.92	9.92	53.5	9.96	16.1	9.98	18.0	10.1	483	202
TPH by SW8015 Mod	Extracted:	08.28.2020	17:15	08.28.2020	17:15	08.28.2020	17:00	08.28.2020	17:00	08.28.2020	17:00	08.28.2020	17:00
	Analyzed:	08.29.2020	07:38	08.29.2020	07:58	08.28.2020	18:28	08.28.2020	19:29	08.28.2020	19:49	08.28.2020	20:09
	Units/RL:	mg/kg	RL										
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.8	49.8	<49.9	49.9	<50.1	50.1	<49.8	49.8	<50.2	50.2
Diesel Range Organics (DRO)		<50.0	50.0	<49.8	49.8	<49.9	49.9	< 50.1	50.1	<49.8	49.8	<50.2	50.2
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.8	49.8	<49.9	49.9	<50.1	50.1	<49.8	49.8	<50.2	50.2
Total TPH		<50.0	50.0	<49.8	49.8	<49.9	49.9	<50.1	50.1	<49.8	49.8	<50.2	50.2

BRL - Below Reporting Limit

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

Jession Vramer

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Xenco

Environment Testing

034820010

Chris McKisson

Eddy County

🛟 eurofins

Project Id:

Project Location:

Contact:

Certificate of Analysis Summary 671316

WSP USA, Dallas, TX

Project Name: RDX 17-25

 Date Received in Lab:
 Fri 08.28.2020 14:08

 Report Date:
 01.12.2021 16:10

Project Manager: Jessica Kramer

	Lab Id:	671316-0	19	671316-0	20		
Analysis Requested	Field Id:	PH06 A	\	PH06 I	3		
Analysis Requested	Depth:	2.5-		4.5-			
	Matrix:	SOIL		SOIL			
	Sampled:	08.27.2020	16:41	08.27.2020	16:55		
BTEX by EPA 8021B	Extracted:	08.28.2020	17:56	08.28.2020	17:56		
	Analyzed:	08.29.2020	09:41	08.29.2020	10:02		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00202	0.00202	< 0.00201	0.00201		
Toluene		< 0.00202	0.00202	< 0.00201	0.00201		
Ethylbenzene		< 0.00202	0.00202	< 0.00201	0.00201		
m,p-Xylenes		< 0.00403	0.00403	< 0.00402	0.00402		
o-Xylene		< 0.00202	0.00202	< 0.00201	0.00201		
Total Xylenes		< 0.00202	0.00202	< 0.00201	0.00201		
Total BTEX		< 0.00202	0.00202	< 0.00201	0.00201		
Inorganic Anions by EPA 300	Extracted:	08.28.2020	17:09	08.28.2020	17:09		
	Analyzed:	08.28.2020	22:37	08.28.2020	22:43		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		1200	49.5	969	9.98		
TPH by SW8015 Mod	Extracted:	08.28.2020	17:00	08.28.2020	17:00		
	Analyzed:	08.28.2020	20:29	08.28.2020	20:50		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<50.0	50.0		
Diesel Range Organics (DRO)		<49.8	49.8	<50.0	50.0		
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<50.0	50.0		
Total TPH		<49.8	49.8	<50.0	50.0		

BRL - Below Reporting Limit

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

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Analytical Report 671316

for

WSP USA

Project Manager: Chris McKisson

RDX 17-25

034820010

01.12.2021

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

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

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

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

eurofins Environment Testing Xenco

01.12.2021 Project Manager: Chris McKisson WSP USA

2777 N. Stemmons Freeway, Suite 1600 Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): 671316 RDX 17-25 Project Address: Eddy County

Chris McKisson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 671316. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 671316 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

fession beamer

Jessica Kramer Project Manager

A Small Business and Minority Company

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Sample Cross Reference 671316

WSP USA, Dallas, TX

RDX 17-25

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH01	S	08.27.2020 09:19	1 ft	671316-001
PH01 A	S	08.27.2020 09:39	2 ft	671316-002
PH01 B	S	08.27.2020 09:54	4 ft	671316-003
PH01 C	S	08.27.2020 12:29	6 ft	671316-004
PH02	S	08.27.2020 10:05	1 ft	671316-005
PH02 A	S	08.27.2020 10:15	2 ft	671316-006
PH02 B	S	08.27.2020 10:23	4 ft	671316-007
PH03	S	08.27.2020 10:47	1 ft	671316-008
PH03 A	S	08.27.2020 11:07	2 ft	671316-009
PH03 B	S	08.27.2020 11:16	3 ft	671316-010
PH03 C	S	08.27.2020 11:22	4 ft	671316-011
PH04	S	08.27.2020 14:33	1 ft	671316-012
PH04 A	S	08.27.2020 14:38	2 ft	671316-013
PH04 B	S	08.27.2020 14:44	4 ft	671316-014
PH05	S	08.27.2020 15:18	1	671316-015
PH05 A	S	08.27.2020 15:23	2	671316-016
PH05 B	S	08.27.2020 15:33	4	671316-017
PH06	S	08.27.2020 16:37	1	671316-018
PH06 A	S	08.27.2020 16:41	2.5	671316-019
PH06 B	S	08.27.2020 16:55	4.5	671316-020

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CASE NARRATIVE

Client Name: WSP USA Project Name: RDX 17-25

 Project ID:
 034820010

 Work Order Number(s):
 671316

Report Date: 01.12.2021 Date Received: 08.28.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3135936 TPH by SW8015 Mod Surrogate 1-Chlorooctane recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis. Samples affected are: 671316-015 S,671316-015 SD.

Certificate of Analytical Results 671316

WSP USA, Dallas, TX RDX 17-25

Sample Id: PH01 Lab Sample Id: 671316-001		Matrix: Date Colle	Soil ected: 08.27	.2020 09:19		Date Received:08.2 Sample Depth: 1 ft		08
Analytical Method: Inorganic Anio	ns by EPA 300					Prep Method: E30	OP	
Tech: MAB						% Moisture:		
Analyst: MAB		Date Prep	: 08.28	.2020 15:05			t Weight	
Seq Number: 3135891							e er er Brit	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12300	198		mg/kg	08.28.2020 19:44		20
						D 16 1 1 OTT	00150	
Analytical Method:TPH by SW801Tech:DTHAnalyst:DTHSeq Number:3135945	.5 Mod	Date Prep	: 08.28	.2020 17:15		Prep Method: SW % Moisture: Basis: Wet	8015P t Weight	
Tech: DTH Analyst: DTH	.5 Mod Cas Number	Date Prep Result	: 08.28 RL	.2020 17:15	Units	% Moisture:		Dil
Tech: DTH Analyst: DTH Seq Number: 3135945				.2020 17:15	Units mg/kg	% Moisture: Basis: Wet	t Weight	Dil
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter	Cas Number	Result	RL	.2020 17:15		% Moisture: Basis: Wet Analysis Date	t Weight Flag	
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <50.0	RL 50.0	.2020 17:15	mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 03:14	t Weight Flag U	1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <50.0 <50.0	RL 50.0 50.0	.2020 17:15	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 03:14 08.29.2020 03:14	t Weight Flag U U	1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHC62835 PHC635	Result <50.0 <50.0 <50.0 <50.0 <50.0	RL 50.0 50.0 50.0	Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 03:14 08.29.2020 03:14 08.29.2020 03:14 08.29.2020 03:14	t Weight Flag U U U	1 1 1
Tech:DTHAnalyst:DTHSeq Number:3135945ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	Result <50.0 <50.0 <50.0 <50.0 <50.0	RL 50.0 50.0 50.0 50.0		mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 03:14 08.29.2020 03:14 08.29.2020 03:14 08.29.2020 03:14	t Weight Flag U U U U Flag	1 1 1

Certificate of Analytical Results 671316

WSP USA, Dallas, TX RDX 17-25

Sample Id: Lab Sample I	PH01 d: 671316-001	Matrix: Date Collected	Soil d: 08.27.2020 09:19	Date Received Sample Depth	1:08.28.2020 14:08 : 1 ft
Analytical M Tech:	ethod: BTEX by EPA 8021B MAB			Prep Method:	SW5035A
Analyst:	MAB	Date Prep:	08.28.2020 16:51	% Moisture: Basis:	Wet Weight
Seq Number:	3135888			Dusis.	wet weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	08.28.2020 23:27	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	08.28.2020 23:27	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	08.28.2020 23:27	U	1
m,p-Xylenes	179601-23-1	< 0.00395	0.00395		mg/kg	08.28.2020 23:27	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	08.28.2020 23:27	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	08.28.2020 23:27	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	08.28.2020 23:27	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	102	%	70-130	08.28.2020 23:27		
1,4-Difluorobenzene		540-36-3	95	%	70-130	08.28.2020 23:27		

Certificate of Analytical Results 671316

WSP USA, Dallas, TX RDX 17-25

Sample Id:PH01 ALab Sample Id:671316-002		Matrix: Date Co	Soil ollected: 08.27	.2020 09:39		Date Received:08. Sample Depth: 2 f		:08
Analytical Method: Inorganic Anio Tech: MAB	ns by EPA 300					Prep Method: E3	00P	
Analyst: MAB		Date Pro	en: 08.28	.2020 15:05		% Moisture:		
Seq Number: 3135891		Date I to	cp. 00.20	.2020 12.03		Basis: We	et Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3750	50.1		mg/kg	08.28.2020 19:50		5
Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3135945	15 Mod	Date Pro	ep: 08.28	.2020 17:15		Prep Method: SW % Moisture: Basis: We	V8015P et Weight	
Tech: DTH Analyst: DTH	15 Mod Cas Number	Date Pro Result	ep: 08.28 RL	.2020 17:15		% Moisture:		Dil
Tech: DTH Analyst: DTH Seq Number: 3135945				.2020 17:15		% Moisture: Basis: We	et Weight	Dil 1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter	Cas Number	Result	RL	.2020 17:15	Units	% Moisture: Basis: We Analysis Date	et Weight Flag	
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <50.1	RL 50.1	.2020 17:15	Units mg/kg	% Moisture: Basis: We Analysis Date 08.29.2020 03:35	et Weight Flag U	1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <50.1 <50.1	RL 50.1 50.1	.2020 17:15	Units mg/kg mg/kg	% Moisture: Basis: We Analysis Date 08.29.2020 03:35 08.29.2020 03:35	et Weight Flag U U	1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result <50.1 <50.1 <50.1 <50.1 <50.1	RL 50.1 50.1 50.1	.2020 17:15 Units	Units mg/kg mg/kg mg/kg	% Moisture: Basis: We Analysis Date 08.29.2020 03:35 08.29.2020 03:35 08.29.2020 03:35 08.29.2020 03:35	et Weight Flag U U U U	1 1 1
Tech:DTHAnalyst:DTHSeq Number:3135945ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	Result <50.1 <50.1 <50.1 <50.1 <50.1	RL 50.1 50.1 50.1 50.1 50.1		Units mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: We Analysis Date 08.29.2020 03:35 08.29.2020 03:35 08.29.2020 03:35 08.29.2020 03:35 08.29.2020 03:35 Analysis Date	et Weight Flag U U U U U U e Flag	1 1 1

Certificate of Analytical Results 671316

WSP USA, Dallas, TX RDX 17-25

Sample Id: Lab Sample Id	PH01 A l: 671316-002		Matrix: Date Collected	Soil l: 08.27.2020 09:39	Date Receiv Sample Dep	ed:08.28.2020 14: th: 2 ft	08
Analytical Me	thod: BTEX by EPA 802	21B			Prep Method	l: SW5035A	
Tech:	MAB						
Analyst:	MAB		Date Prep:	08.28.2020 16:51	% Moisture: Basis:	Wet Weight	
Seq Number:	3135888				Dasis.	wet weight	
Paramotor		Cas Number	Result DI	т	Unita Analysia	Data Elag	Dil

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	08.28.2020 23:47	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	08.28.2020 23:47	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	08.28.2020 23:47	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	08.28.2020 23:47	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	08.28.2020 23:47	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	08.28.2020 23:47	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	08.28.2020 23:47	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	106	%	70-130	08.28.2020 23:47		
1,4-Difluorobenzene		540-36-3	100	%	70-130	08.28.2020 23:47		

Certificate of Analytical Results 671316

WSP USA, Dallas, TX

KDX I	17-23

Sample Id: PH01 B Lab Sample Id: 671316-003		Matrix: Date Co	Soil llected: 08.2'	7.2020 09:54		Date Received:08 Sample Depth: 4 t		:08
Analytical Method: Inorganic Anio	ns by EPA 300					Prep Method: E3	300P	
Tech: MAB								
Analyst: MAB		Date Pre	p: 08.2	8.2020 15:05		% Moisture: Basis: W	et Weight	
Seq Number: 3135891							et weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3720	50.2		mg/kg	08.28.2020 19:55		5
Analytical Method:TPH by SW801Tech:DTHAnalyst:DTHSeq Number:3135945	5 Mod	Date Pre	р: 08.2	8.2020 17:15		Prep Method: SW % Moisture: Basis: W	W8015P Tet Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	08.29.2020 03:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	08.29.2020 03:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	08.29.2020 03:55	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	08.29.2020 03:55	U	1
Surrogate	С	as Number	% Recovery	Units	Limits	Analysis Dat	e Flag	Ĩ
Surrogate 1-Chlorooctane	-	as Number 9	% Recovery 94	Units %	Limits 70-135	÷	0	Ĩ

Certificate of Analytical Results 671316

WSP USA, Dallas, TX RDX 17-25

Sample Id: PH01 B Lab Sample Id: 671316-003		Matrix: Date Collecte	Soil d: 08.27.2020 09:54		Date Received:0 Sample Depth: 4		08
Analytical Method: BTEX by EPA	A 8021B				Prep Method: S		
Tech:MABAnalyst:MABSeq Number:3135888		Date Prep:	08.28.2020 16:51		% Moisture: Basis: V	Vet Weight	
Parameter	Cas Number	Result RI		Units	Analysis Date	Flag	Dil

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	08.29.2020 00:07	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	08.29.2020 00:07	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	08.29.2020 00:07	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	08.29.2020 00:07	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	08.29.2020 00:07	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	08.29.2020 00:07	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	08.29.2020 00:07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	96	%	70-130	08.29.2020 00:07		
1,4-Difluorobenzene		540-36-3	100	%	70-130	08.29.2020 00:07		

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Sample Id:PH01 CLab Sample Id:671316-004		Matrix: Date Coll	Soil ected: 08.27.	.2020 12:29		Date Received:08.2 Sample Depth: 6 ft	28.2020 14	:08
Analytical Method: Inorganic Anio	ns by EPA 300					Prep Method: E30	0P	
Tech: MAB								
Analyst: MAB		Date Prep	08.28.	.2020 15:05		% Moisture: Basis: Wet	Weight	
Seq Number: 3135891						Dasis. Wet	weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6480	49.5		mg/kg	08.28.2020 20:01		5
							00150	
Analytical Method: TPH by SW801 Tech: DTH Analyst: DTH Seq Number: 3135945		Date Prep		.2020 17:15		Prep Method: SW3 % Moisture: Basis: Wet	8015P t Weight	
Tech: DTH Analyst: DTH	15 Mod Cas Number	Date Prep Result	o: 08.28. RL	.2020 17:15	Units	% Moisture:		Dil
Tech:DTHAnalyst:DTHSeq Number:3135945		-		.2020 17:15	Units mg/kg	% Moisture: Basis: Wet	t Weight	Dil
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number	Result	RL	.2020 17:15		% Moisture: Basis: Wet Analysis Date	t Weight Flag	
Tech:DTHAnalyst:DTHSeq Number:3135945ParameterGasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <49.9	RL 49.9	.2020 17:15	mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 04:15	t Weight Flag U	1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <49.9 <49.9	RL 49.9 49.9	.2020 17:15	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 04:15 08.29.2020 04:15	t Weight Flag U U	1 1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9	RL 49.9 49.9 49.9	.2020 17:15 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 04:15 08.29.2020 04:15 08.29.2020 04:15 08.29.2020 04:15	t Weight Flag U U U U	1 1 1
Tech:DTHAnalyst:DTHSeq Number:3135945ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9	RL 49.9 49.9 49.9 49.9 49.9		mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 04:15 08.29.2020 04:15 08.29.2020 04:15 08.29.2020 04:15	: Weight Flag U U U U Flag	1 1 1

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Sample Id: PH01 C Lab Sample Id: 671316-004		Matrix: Date Collecte	Soil d: 08.27.2020 12:29	Date Receiv Sample Dep	ed:08.28.2020 14 th: 6 ft	:08
Analytical Method: BTEX by EPA	8021B			Prep Method	l: SW5035A	
Tech: MAB Analyst: MAB		Date Prep:	08.28.2020 16:51	% Moisture: Basis:		
Seq Number: 3135888				Dasis.	Wet Weight	
Parameter	Cas Number	Result RI	. II	nits Analysis	Date Flag	Dil

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	08.29.2020 01:23	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	08.29.2020 01:23	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	08.29.2020 01:23	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	08.29.2020 01:23	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	08.29.2020 01:23	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	08.29.2020 01:23	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	08.29.2020 01:23	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	110	%	70-130	08.29.2020 01:23		
1,4-Difluorobenzene		540-36-3	101	%	70-130	08.29.2020 01:23		

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КI	JX		1	-20
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Sample Id: PH02 Lab Sample Id: 671316-005		Matrix: Date Co	Soil llected: 08.27	.2020 10:05		Date Received:08.2 Sample Depth: 1 ft	8.2020 14	:08
Analytical Method: Inorganic Anio Tech: MAB	ns by EPA 300					Prep Method: E300	9P	
Analyst: MAB		Date Pre	ep: 08.28	.2020 15:05		% Moisture: Basis: Wet	Watala	
Seq Number: 3135891						Dasis. wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2820	49.9		mg/kg	08.28.2020 20:17		5
Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3135945	15 Mod	Date Pre	ep: 08.28	.2020 17:15		Prep Method: SW8 % Moisture: Basis: Wet	3015P Weight	
Tech: DTH Analyst: DTH	15 Mod Cas Number	Date Pre Result	p: 08.28 RL	.2020 17:15	Units	% Moisture:		Dil
Tech: DTH Analyst: DTH Seq Number: 3135945			r.	.2020 17:15	Units mg/kg	% Moisture: Basis: Wet	Weight	Dil
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter	Cas Number	Result	RL	.2020 17:15		% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <49.9	RL 49.9	.2020 17:15	mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 04:56	Weight Flag	1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <49.9 69.5	RL 49.9 49.9	.2020 17:15	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 04:56 08.29.2020 04:56	Weight Flag U	1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result <49.9 69.5 <49.9 69.5	RL 49.9 49.9 49.9	.2020 17:15 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 04:56 08.29.2020 04:56 08.29.2020 04:56 08.29.2020 04:56	Weight Flag U	1 1 1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	Result <49.9 69.5 <49.9 69.5	RL 49.9 49.9 49.9 49.9 49.9		mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 04:56 08.29.2020 04:56 08.29.2020 04:56 08.29.2020 04:56 08.29.2020 04:56	Weight Flag U U Flag	1 1 1

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Sample Id: PH02 Lab Sample Id: 671316-005		Matrix: Date Collecte	Soil d: 08.27.2020 10:05		Date Received Sample Depth		020 14:0	38
Analytical Method: BTEX by EP	A 8021B				Prep Method:	SW503	5A	
Tech: MAB Analyst: MAB		Date Prep:	08.28.2020 16:51		% Moisture:			
Seq Number: 3135888		Ĩ			Basis:	Wet We	eight	
Parameter	Cas Number	Result RI		Units	Analysis Da	nte I	Flag	Dil

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	08.29.2020 01:44	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	08.29.2020 01:44	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	08.29.2020 01:44	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	08.29.2020 01:44	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	08.29.2020 01:44	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	08.29.2020 01:44	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	08.29.2020 01:44	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	108	%	70-130	08.29.2020 01:44		
1,4-Difluorobenzene		540-36-3	101	%	70-130	08.29.2020 01:44		

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Sample Id:PH02 ALab Sample Id:671316-006		Matrix: Date Colle	Soil ected: 08.27.	.2020 10:15		Date Received: Sample Depth:		3.2020 14:	08
Analytical Method: Inorganic Anio	ns by EPA 300					Prep Method:	E300	Р	
Tech: MAB									
Analyst: MAB		Date Prep	: 08.28.	.2020 15:05		% Moisture: Basis:	Wat V	Waight	
Seq Number: 3135891						Dasis.	wei	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Da	ate	Flag	Dil
Chloride	16887-00-6	17700	198		mg/kg	08.28.2020 20):23		20
							GNIO	01.50	
Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3135945	15 Mod	Date Prep	: 08.28.	.2020 17:15		Prep Method: % Moisture: Basis:		015P Weight	
Tech: DTH Analyst: DTH	15 Mod Cas Number	Date Prep Result	: 08.28. RL	.2020 17:15	Units	% Moisture:	Wet		Dil
Tech:DTHAnalyst:DTHSeq Number:3135945				.2020 17:15	Units mg/kg	% Moisture: Basis:	Wet V	Weight	Dil
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter	Cas Number	Result	RL	.2020 17:15		% Moisture: Basis: Analysis Da	Wet V ate 5:16	Weight Flag	
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <50.1	RL 50.1	.2020 17:15	mg/kg	% Moisture: Basis: Analysis Da	Wet V ate 5:16 5:16	Weight Flag U	1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <50.1 <50.1	RL 50.1 50.1	.2020 17:15	mg/kg mg/kg	% Moisture: Basis: Analysis Da 08.29.2020 05 08.29.2020 05	Wet V ate 5:16 5:16 5:16	Weight Flag U U	1 1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result <50.1 <50.1 <50.1 <50.1 <50.1 <50.1	RL 50.1 50.1 50.1	.2020 17:15 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Analysis Da 08.29.2020 05 08.29.2020 05 08.29.2020 05 08.29.2020 05	Wet V 5:16 5:16 5:16 5:16 5:16	Weight Flag U U U	1 1 1
Tech:DTHAnalyst:DTHSeq Number:3135945ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	Result <50.1 <50.1 <50.1 <50.1 <50.1 <50.1	RL 50.1 50.1 50.1 50.1		mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Analysis Da 08.29.2020 05 08.29.2020 05 08.29.2020 05 08.29.2020 05 Analysis I	Wet V ate 5:16 5:16 5:16 5:16 5:16 Date	Weight Flag U U U U U	1 1 1

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Sample Id: PH02 A Lab Sample Id: 671316-006		Matrix: Date Collecte	Soil d: 08.27.2020 10:15		Date Received Sample Depth		.2020 14:	08
Analytical Method: BTEX by EPA	A 8021B				Prep Method:	SW50	35A	
Tech: MAB Analyst: MAB		Date Prep:	08.28.2020 16:51		% Moisture: Basis:	Wat V	Vaiabt	
Seq Number: 3135888		-			Dasis.	wetv	Veight	
Parameter	Cas Number	Result RI	, I	Inits	Analysis Da	ate	Flag	Dil

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	08.29.2020 02:04	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	08.29.2020 02:04	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	08.29.2020 02:04	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	08.29.2020 02:04	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	08.29.2020 02:04	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	08.29.2020 02:04	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	08.29.2020 02:04	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	105	%	70-130	08.29.2020 02:04		
1,4-Difluorobenzene		540-36-3	101	%	70-130	08.29.2020 02:04		

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Sample Id: PH02 B Lab Sample Id: 671316-007		Matrix: Date Collec	Soil cted: 08.27.2020 10:2	3	Date Received:08.23 Sample Depth: 4 ft	8.2020 14:	.08
Analytical Method: Inorganic Anion	ns by EPA 300				Prep Method: E300)P	
Tech: MAB							
Analyst: MAB		Date Prep:	08.28.2020 15:0	5	% Moisture: Basis: Wet	Weight	
Seq Number: 3135891					Dasis. Wet	weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3180	49.7	mg/kg	08.28.2020 20:29		5
Analytical Method: TPH by SW801	15 Mod				Prep Method: SW8	8015P	
Tech: DTH Analyst: DTH Seq Number: 3135945		Date Prep:	08.28.2020 17:1 RL		% Moisture: Basis: Wet	Weight	Dil
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter	Cas Number	Result	RL	Units	% Moisture: Basis: Wet Analysis Date	Weight Flag	Dil
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <50.0	RL 50.0	Units mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 05:37	Weight Flag U	1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <50.0 <50.0	RL 50.0 50.0	Units mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 05:37 08.29.2020 05:37	Weight Flag U U	1 1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <50.0	RL 50.0	Units mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 05:37	Weight Flag U	1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result <50.0 <50.0 <50.0 <50.0 <50.0	RL 50.0 50.0 50.0	Units mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 05:37 08.29.2020 05:37 08.29.2020 05:37 08.29.2020 05:37	Weight Flag U U U	1 1 1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	Result <50.0 <50.0 <50.0 <50.0 <50.0	RL 50.0 50.0 50.0 50.0 50.0	Units mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 05:37 08.29.2020 05:37 08.29.2020 05:37 08.29.2020 05:37 08.29.2020 05:37 s Analysis Date	Weight Flag U U U U U	1 1 1

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Sample Id: PH02 B Lab Sample Id: 671316-007		Matrix: Date Collecte	Soil d: 08.27.2020 10:23		ate Received:(ample Depth: 4	08.28.2020 14 4 ft	:08
Analytical Method: BTEX by EPA	A 8021B			Pr	ep Method: S	SW5035A	
Tech: MAB Analyst: MAB		Date Prep:	08.28.2020 16:51		Moisture: asis:	N 7-4 N 7-1-4	
Seq Number: 3135888				Di	1818:	Wet Weight	
Parameter	Cas Number	Result RI	,	Inits	Analysis Date	e Flag	Dil

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	08.29.2020 02:24	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	08.29.2020 02:24	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	08.29.2020 02:24	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	08.29.2020 02:24	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	08.29.2020 02:24	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	08.29.2020 02:24	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	08.29.2020 02:24	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	106	%	70-130	08.29.2020 02:24		
4-Bromofluorobenzene		460-00-4	103	%	70-130	08.29.2020 02:24		

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Sample Id: PH03		Matrix:	Soil			Date Received:08.2		:08
Lab Sample Id: 671316-008		Date Co	ollected: 08.27	.2020 10:47		Sample Depth: 1 ft		
Analytical Method: Inorganic Anio	ons by EPA 300					Prep Method: E30	0P	
Tech: MAB								
Analyst: MAB		Date Pro	ep: 08.28	.2020 15:05		% Moisture: Basis: Wet	Waiaht	
Seq Number: 3135891						Dasis. Wei	t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1890	49.9		mg/kg	08.28.2020 20:34		5
Analytical Method: TPH by SW80Tech:DTHAnalyst:DTHSeq Number:3135945	15 Mod	Date Pro	ep: 08.28	.2020 17:15		Prep Method: SW % Moisture: Basis: Wet	8015P t Weight	
Tech: DTH Analyst: DTH	15 Mod Cas Number	Date Pro Result	ep: 08.28 RL	.2020 17:15	Units	% Moisture:		Dil
Tech: DTH Analyst: DTH Seq Number: 3135945				.2020 17:15	Units mg/kg	% Moisture: Basis: Wet	t Weight	Dil 1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter	Cas Number	Result	RL	.2020 17:15		% Moisture: Basis: Wet Analysis Date	t Weight Flag	
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <49.9	RL 49.9	.2020 17:15	mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 05:57	t Weight Flag U	1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <49.9 <49.9	RL 49.9 49.9	.2020 17:15	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 05:57 08.29.2020 05:57	t Weight Flag U U	1 1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9	RL 49.9 49.9 49.9	.2020 17:15 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 05:57 08.29.2020 05:57 08.29.2020 05:57 08.29.2020 05:57	t Weight Flag U U U	1 1 1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9	RL 49.9 49.9 49.9 49.9 49.9		mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 05:57 08.29.2020 05:57 08.29.2020 05:57 08.29.2020 05:57	t Weight Flag U U U U U Flag	1 1 1

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Sample Id: PH03 Lab Sample Id: 671316-008		Matrix:	Soil d: 08.27.2020 10:47		Date Received Sample Depth	1:08.28.2020 14 : 1 ft	:08
Analytical Method: BTEX by EP	A 8021B	Date Conecte	1. 08.27.2020 10.47		Prep Method:		
Tech: MAB Analyst: MAB Seq Number: 3135888		Date Prep:	08.28.2020 16:51		% Moisture: Basis:	Wet Weight	
Parameter	Cas Number	Result RI	,	Units	Analysis D	ate Flag	Dil

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	08.29.2020 02:45	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	08.29.2020 02:45	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	08.29.2020 02:45	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	08.29.2020 02:45	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	08.29.2020 02:45	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	08.29.2020 02:45	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	08.29.2020 02:45	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	101	%	70-130	08.29.2020 02:45		
1,4-Difluorobenzene		540-36-3	99	%	70-130	08.29.2020 02:45		

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Sample Id: PH03 A Lab Sample Id: 671316-009		Matrix: Date Coll	Soil ected: 08.27	7.2020 11:07		Date Received:08. Sample Depth: 2 ft		.08
Analytical Method: Inorganic Anion	ns by EPA 300					Prep Method: E30)0P	
Tech: MAB								
Analyst: MAB		Date Prep	08.28	8.2020 15:05		% Moisture: Basis: We	t Weight	
Seq Number: 3135891						Dasis. We	t weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1180	49.8		mg/kg	08.28.2020 20:51		5
Analytical Method:TPH by SW801Tech:DTHAnalyst:DTHSeq Number:3135945	5 Mod	Date Prep	o: 08.28	8.2020 17:15		Prep Method: SW % Moisture: Basis: We	78015P t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	08.29.2020 06:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	08.29.2020 06:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	08.29.2020 06:17	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	08.29.2020 06:17	U	1
Surrogate	С	as Number %	Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	1	11-85-3	94	%	70-135	08.29.2020 06:1	7	
o-Terphenyl		4-15-1	98	%	70-135	08.29.2020 06:1		

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Sample Id: Lab Sample Id:	PH03 A 671316-009		Matrix: Date Collected	Soil l: 08.27.2020 11:07		Date Received Sample Depth		.2020 14:0	38
Analytical Meth	nod: BTEX by EPA 802	1B				Prep Method:	SW50)35A	
Tech:	MAB					0/ 1 5 • ·			
Analyst: N	MAB		Date Prep:	08.28.2020 16:51		% Moisture: Basis:	Wat V	Veight	
Seq Number: 3	3135888					Dasis.	weiv	vergni	
Parameter		Cas Number	Result RI		Units	Analysis De	ate	Flag	Dil

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	08.29.2020 03:05	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	08.29.2020 03:05	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	08.29.2020 03:05	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	08.29.2020 03:05	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	08.29.2020 03:05	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	08.29.2020 03:05	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	08.29.2020 03:05	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	104	%	70-130	08.29.2020 03:05		
4-Bromofluorobenzene		460-00-4	109	%	70-130	08.29.2020 03:05		

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Sample Id: PH03 B Lab Sample Id: 671316-010		Matrix: Date Colle	Soil ected: 08.27.2020) 11:16	Date Received:08.2 Sample Depth: 3 ft	8.2020 14	:08
Analytical Method: Inorganic Anio	ns by EPA 300				Prep Method: E30	0P	
Tech: MAB							
Analyst: MAB		Date Prep:	08.28.2020) 15:05	% Moisture: Basis: Wet	Weight	
Seq Number: 3135891					Dasis. Wet	Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	512	49.9	mg/kg	08.28.2020 20:57		5
Analytical Matheds TDU by SW901	5 Mod				Duen Methods CW	20150	
Analytical Method: TPH by SW801 Tech: DTH Analyst: DTH Seq Number: 3135945		Date Prep:				Weight	
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter	Cas Number	Result	RL	Units	 Moisture: Basis: Wet Analysis Date 	Weight Flag	Dil
Tech:DTHAnalyst:DTHSeq Number:3135945ParameterGasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <50.0	RL 50.0	Units mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 06:37	Weight Flag U	1
Tech:DTHAnalyst:DTHSeq Number:3135945ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <50.0 <50.0	RL 50.0 50.0	Units mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 06:37 08.29.2020 06:37	Weight Flag U U	1 1
Tech:DTHAnalyst:DTHSeq Number:3135945ParameterGasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <50.0	RL 50.0	Units mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 06:37	Weight Flag U	1

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Sample Id: PH03 B Lab Sample Id: 671316-010		Matrix: Date Collecte	Soil d: 08.27.2020 11:16		Date Received Sample Depth:		.2020 14:	08
Analytical Method: BTEX by EP	A 8021B			I	Prep Method:	SW50)35A	
Tech: MAB Analyst: MAB		Date Prep:	08.28.2020 16:51		% Moisture:			
Seq Number: 3135888		, in the second s		1	Basis:	Wet V	Veight	
Parameter	Cas Number	Result RI	, I	Inits	Analysis Da	nte	Flag	Dil

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	08.29.2020 03:26	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	08.29.2020 03:26	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	08.29.2020 03:26	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	08.29.2020 03:26	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	08.29.2020 03:26	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	08.29.2020 03:26	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	08.29.2020 03:26	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	105	%	70-130	08.29.2020 03:26		
4-Bromofluorobenzene		460-00-4	106	%	70-130	08.29.2020 03:26		

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Sample Id: PH03 C Lab Sample Id: 671316-011		Matrix: Date Co	Soil llected: 08.27	.2020 11:22		Date Received:08.2 Sample Depth: 4 ft	8.2020 14	:08
Analytical Method: Inorganic Anions	s by EPA 300					Prep Method: E300)P	
Tech: MAB Analyst: MAB		Data Da		.2020 15:05		% Moisture:		
Seq Number: 3135891		Date Pre	ep: 08.28	.2020 15.05		Basis: Wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	227	9.96		mg/kg	08.28.2020 21:02		1
Analytical Method:TPH by SW8015Tech:DTHAnalyst:DTHSeq Number:3135945	i Mod	Date Pre	ep: 08.28	.2020 17:15		Prep Method: SW8 % Moisture: Basis: Wet	8015P Weight	
Tech: DTH Analyst: DTH	5 Mod Cas Number	Date Pre Result	ep: 08.28 RL	.2020 17:15	Units	% Moisture:		Dil
Tech: DTH Analyst: DTH Seq Number: 3135945			r.	.2020 17:15	Units mg/kg	% Moisture: Basis: Wet	Weight	Dil 1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter	Cas Number	Result	RL	.2020 17:15		 Moisture: Basis: Wet Analysis Date 	Weight Flag	
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result	RL 50.1	.2020 17:15	mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 06:57	Weight Flag U	1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <50.1 <50.1	RL 50.1 50.1	.2020 17:15	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 06:57 08.29.2020 06:57	Weight Flag U U	1 1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result <50.1 <50.1 <50.1 <50.1 <50.1 <50.1	RL 50.1 50.1 50.1	.2020 17:15 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 06:57 08.29.2020 06:57 08.29.2020 06:57 08.29.2020 06:57	Weight Flag U U U	1 1 1
Tech:DTHAnalyst:DTHSeq Number:3135945ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result <50.1 <50.1 <50.1 <50.1 <50.1 <50.1	RL 50.1 50.1 50.1 50.1 50.1		mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 06:57 08.29.2020 06:57 08.29.2020 06:57 08.29.2020 06:57 08.29.2020 06:57 35 Analysis Date	Weight Flag U U U U U	1 1 1

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Sample Id: PH03 C Lab Sample Id: 671316-011		Matrix: Date Collecte	Soil d: 08.27.2020 11:22	Date Received:08.28.2020 14:08 Sample Depth: 4 ft
Analytical Method: BTEX by EPA	8021B			Prep Method: SW5035A
Tech: MAB Analyst: MAB Seq Number: 3135888		Date Prep:	08.28.2020 16:51	% Moisture: Basis: Wet Weight
Parameter	Cas Number	Result RI		Units Analysis Date Flag Dil

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	08.29.2020 03:46	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	08.29.2020 03:46	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	08.29.2020 03:46	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	08.29.2020 03:46	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	08.29.2020 03:46	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	08.29.2020 03:46	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	08.29.2020 03:46	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	99	%	70-130	08.29.2020 03:46		
4-Bromofluorobenzene		460-00-4	107	%	70-130	08.29.2020 03:46		

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Sample Id: PH04 Lab Sample Id: 671316-012		Matrix: Date Co	Soil Ilected: 08.27	.2020 14:33		Date Received:08. Sample Depth: 1 ft		:08
Analytical Method: Inorganic Anio Tech: MAB	ns by EPA 300					Prep Method: E30	00P	
Tech: MAB Analyst: MAB		Data Da		.2020 15:05		% Moisture:		
Seq Number: 3135891		Date Pre	ep: 08.28	.2020 15:05		Basis: We	et Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	55.4	9.98		mg/kg	08.28.2020 21:08		1
Analytical Method:TPH by SW80Tech:DTHAnalyst:DTHSeq Number:3135945	15 Mod	Date Pre	ер: 08.28	.2020 17:15		Prep Method: SW % Moisture: Basis: We	/8015P et Weight	
Tech: DTH Analyst: DTH	15 Mod Cas Number	Date Pre Result	ep: 08.28. RL	.2020 17:15	Units	% Moisture:		Dil
Tech:DTHAnalyst:DTHSeq Number:3135945			1	.2020 17:15	Units mg/kg	% Moisture: Basis: We	et Weight	Dil 1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter	Cas Number	Result	RL	.2020 17:15		% Moisture: Basis: We Analysis Date	et Weight Flag	
Tech:DTHAnalyst:DTHSeq Number:3135945ParameterGasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result	RL 50.0	.2020 17:15	mg/kg	% Moisture: Basis: We Analysis Date 08.29.2020 07:18	et Weight Flag U	1
Tech:DTHAnalyst:DTHSeq Number:3135945ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <50.0 <50.0	RL 50.0 50.0	.2020 17:15	mg/kg mg/kg	% Moisture: Basis: We <u>Analysis Date</u> 08.29.2020 07:18 08.29.2020 07:18	et Weight Flag U U	1 1
Tech:DTHAnalyst:DTHSeq Number:3135945ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result <50.0 <50.0 <50.0 <50.0 <50.0	RL 50.0 50.0 50.0	.2020 17:15 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: We Analysis Date 08.29.2020 07:18 08.29.2020 07:18 08.29.2020 07:18 08.29.2020 07:18	et Weight Flag U U U U U U	1 1 1
Tech:DTHAnalyst:DTHSeq Number:3135945ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result <50.0 <50.0 <50.0 <50.0 <50.0	RL 50.0 50.0 50.0 50.0 50.0		mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: We Analysis Date 08.29.2020 07:18 08.29.2020 07:18 08.29.2020 07:18 08.29.2020 07:18 08.29.2020 07:18 Analysis Date	et Weight Flag U U U U U E Flag	1 1 1

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Sample Id: PH04 Lab Sample Id: 671316-012		Matrix: Date Collecte	Soil d: 08.27.2020 14:33		Date Received Sample Depth		.2020 14:	08
Analytical Method: BTEX by EPA	8021B				Prep Method:	SW50	35A	
Tech: MAB Analyst: MAB		Date Prep:	08.28.2020 16:51		% Moisture: Basis:	Wat	Vaiabt	
Seq Number: 3135888					Basis.	wet v	Veight	
Parameter	Cas Number	Result RI	,	Units	Analysis D	ate	Flag	Dil

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	08.29.2020 04:06	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	08.29.2020 04:06	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	08.29.2020 04:06	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	08.29.2020 04:06	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	08.29.2020 04:06	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	08.29.2020 04:06	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	08.29.2020 04:06	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	100	%	70-130	08.29.2020 04:06		
1,4-Difluorobenzene		540-36-3	101	%	70-130	08.29.2020 04:06		

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Sample Id:PH04 ALab Sample Id:671316-013		Matrix: Date Coll	Soil lected: 08.27.2	2020 14:38		Date Received:08.2 Sample Depth: 2 ft	8.2020 14	08
Analytical Method: Inorganic Anio Tech: MAB	ns by EPA 300					Prep Method: E30	0P	
Analyst: MAB		Date Prep	o: 08.28 2	2020 15:05		% Moisture:		
Seq Number: 3135891		Date Tre	. 00.20.1	2020 10.00		Basis: Wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	23.1	9.98		mg/kg	08.28.2020 21:13		1
Analytical Method:TPH by SW80Tech:DTHAnalyst:DTHSeq Number:3135945	15 Mod	Date Prep	p: 08.28.2	2020 17:15		Prep Method: SW8 % Moisture: Basis: Wet	8015P Weight	
Tech: DTH Analyst: DTH	15 Mod Cas Number	Date Prep Result	p: 08.28.2	2020 17:15	Units	% Moisture:		Dil
Tech: DTH Analyst: DTH Seq Number: 3135945				2020 17:15	Units mg/kg	% Moisture: Basis: Wet	Weight	Dil
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter	Cas Number	Result	RL	2020 17:15		% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result	RL 50.0	2020 17:15	mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 07:38	Weight Flag U	1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <50.0 <50.0	RL 50.0 50.0	2020 17:15	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 07:38 08.29.2020 07:38	Weight Flag U U	1 1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result <50.0 <50.0 <50.0 <50.0 <50.0	RL 50.0 50.0 50.0	2020 17:15 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 07:38 08.29.2020 07:38 08.29.2020 07:38 08.29.2020 07:38	Weight Flag U U U	1 1 1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	Result <50.0 <50.0 <50.0 <50.0 <50.0	RL 50.0 50.0 50.0 50.0		mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 07:38 08.29.2020 07:38 08.29.2020 07:38 08.29.2020 07:38	Weight Flag U U U U U Flag	1 1 1

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Sample Id:	PH04 A d: 671316-013	Matrix:	Soil		1:08.28.2020 14:08
	ethod: BTEX by EPA 8021B	Date Collected	1: 08.27.2020 14:38	Sample Depth Prep Method:	
Tech: Analyst:	MAB MAB	Date Prep:	08.28.2020 16:51	% Moisture: Basis:	Wet Weight
Seq Number:	3135888				-

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	08.29.2020 04:27	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	08.29.2020 04:27	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	08.29.2020 04:27	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	08.29.2020 04:27	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	08.29.2020 04:27	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	08.29.2020 04:27	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	08.29.2020 04:27	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	100	%	70-130	08.29.2020 04:27		
4-Bromofluorobenzene		460-00-4	107	%	70-130	08.29.2020 04:27		

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Sample Id:PH04 BLab Sample Id:671316-014	Matrix: Soil Date Collected: 08.27.2020 14:44				Date Received:08.28.2020 14:08 Sample Depth: 4 ft			
Analytical Method: Inorganic Anio Tech: MAB	ns by EPA 300					Prep Method: E300)P	
Analyst: MAB Seq Number: 3135892		Date Pre	p: 08.28	.2020 17:09		% Moisture: Basis: Wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.92	9.92		mg/kg	08.28.2020 21:47	U	1
Analytical Method:TPH by SW80Tech:DTHAnalyst:DTHSeq Number:3135945	15 Mod	Date Pre	p: 08.28.	.2020 17:15		Prep Method: SW8 % Moisture: Basis: Wet	8015P Weight	
Tech: DTH Analyst: DTH	15 Mod Cas Number	Date Pre Result	p: 08.28. RL	.2020 17:15	Units	% Moisture:		Dil
Tech:DTHAnalyst:DTHSeq Number:3135945			F	.2020 17:15	Units mg/kg	% Moisture: Basis: Wet	Weight	Dil 1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter	Cas Number	Result	RL	.2020 17:15		% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <49.8	RL 49.8	.2020 17:15	mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 07:58	Weight Flag U	1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <49.8 <49.8	RL 49.8 49.8	.2020 17:15	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 07:58 08.29.2020 07:58	Weight Flag U U	1 1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result <49.8 <49.8 <49.8 <49.8 <49.8	RL 49.8 49.8 49.8	.2020 17:15 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 07:58 08.29.2020 07:58 08.29.2020 07:58 08.29.2020 07:58	Weight Flag U U U	1 1 1
Tech: DTH Analyst: DTH Seq Number: 3135945 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	Result <49.8 <49.8 <49.8 <49.8 <49.8	RL 49.8 49.8 49.8 49.8 49.8		mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.29.2020 07:58 08.29.2020 07:58 08.29.2020 07:58 08.29.2020 07:58	Weight Flag U U U U U	1 1 1

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WSP USA, Dallas, TX RDX 17-25

Sample Id: Lab Sample I	PH04 B d: 671316-014	Matrix: Date Collecte	Soil d: 08.27.2020 14:44	Date Received Sample Depth	d:08.28.2020 14:08 a: 4 ft
Analytical Me	ethod: BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	08.28.2020 17:56	% Moisture: Basis:	Wet Weight
Seq Number:	3135889			Dasis.	wet weight
_					

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	08.29.2020 07:59	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	08.29.2020 07:59	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	08.29.2020 07:59	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	08.29.2020 07:59	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	08.29.2020 07:59	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	08.29.2020 07:59	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	08.29.2020 07:59	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	105	%	70-130	08.29.2020 07:59		
1,4-Difluorobenzene		540-36-3	95	%	70-130	08.29.2020 07:59		

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Certificate of Analytical Results 671316

WSP USA, Dallas, TX RDX 17-25

Sample Id: PH05 Lab Sample Id: 671316-015		Matrix: Date Colle	Soil ected: 08.27	.2020 15:18		Date Received:08.2 Sample Depth: 1	28.2020 14	:08
Analytical Method: Inorganic Anio Tech: MAB	ns by EPA 300					Prep Method: E30)0P	
Analyst: MAB		Date Prep	. 08.28	.2020 17:09		% Moisture:		
Seq Number: 3135892		1				Basis: Wet	t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	53.5	9.96		mg/kg	08.28.2020 22:04		1
Analytical Method:TPH by SW801Tech:DTHAnalyst:DTHSeq Number:3135936	15 Mod	Date Prep	o: 08.28	.2020 17:00		Prep Method: SW % Moisture: Basis: Wet	8015P t Weight	
Tech: DTH Analyst: DTH	15 Mod Cas Number	Date Prep Result	o: 08.28. RL	.2020 17:00	Units	% Moisture:		Dil
Tech:DTHAnalyst:DTHSeq Number:3135936		Ĩ		.2020 17:00	Units mg/kg	% Moisture: Basis: Wet	t Weight	Dil 1
Tech: DTH Analyst: DTH Seq Number: 3135936 Parameter	Cas Number	Result	RL	.2020 17:00		 Moisture: Basis: Wet Analysis Date 	t Weight Flag	
Tech: DTH Analyst: DTH Seq Number: 3135936 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <49.9	RL 49.9	.2020 17:00	mg/kg	% Moisture: Basis: Wet Analysis Date 08.28.2020 18:28	t Weight Flag U	1
Tech: DTH Analyst: DTH Seq Number: 3135936 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <49.9 <49.9	RL 49.9 49.9	.2020 17:00	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.28.2020 18:28 08.28.2020 18:28	t Weight Flag U U	1 1
Tech: DTH Analyst: DTH Seq Number: 3135936 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result <49.9 <49.9 <49.9 <49.9 <49.9	RL 49.9 49.9 49.9	.2020 17:00 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.28.2020 18:28 08.28.2020 18:28 08.28.2020 18:28 08.28.2020 18:28	t Weight Flag U U U U U	1 1 1
Tech: DTH Analyst: DTH Seq Number: 3135936 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	Result <49.9 <49.9 <49.9 <49.9 <49.9	RL 49.9 49.9 49.9 49.9 49.9		mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.28.2020 18:28 08.28.2020 18:28 08.28.2020 18:28 08.28.2020 18:28 08.28.2020 18:28	t Weight Flag U U U U Flag	1 1 1

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Sample Id: Lab Sample Id	PH05 d: 671316-015	Matrix: Date Collected	Soil d: 08.27.2020 15:18	Date Received Sample Depth	d:08.28.2020 14:08 n: 1
Analytical Me Tech: Analyst:	ethod: BTEX by EPA 8021B MAB MAB	Date Prep:	08.28.2020 17:56	Prep Method: % Moisture:	SW5035A
Seq Number:		Date Trep.	00.20.2020 17.50	Basis:	Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	08.29.2020 08:20	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	08.29.2020 08:20	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	08.29.2020 08:20	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	08.29.2020 08:20	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	08.29.2020 08:20	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	08.29.2020 08:20	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	08.29.2020 08:20	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	106	%	70-130	08.29.2020 08:20		
1,4-Difluorobenzene		540-36-3	100	%	70-130	08.29.2020 08:20		

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Sample Id:PH05 ALab Sample Id:671316-016		Matrix: Date Co	Soil Ilected: 08.27	.2020 15:23		Date Received:08.2 Sample Depth: 2	8.2020 14	:08
Analytical Method: Inorganic Anio	ns by EPA 300					Prep Method: E300	0P	
Tech: MAB						0/ 14-:		
Analyst: MAB		Date Pre	ep: 08.28	.2020 17:09		% Moisture: Basis: Wet	Weight	
Seq Number: 3135892							weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.1	9.98		mg/kg	08.28.2020 22:09		1
Analytical Method: TPH by SW80	15 Mod					Prep Method: SW8	8015P	
Analytical Method:TPH by SW80Tech:DTHAnalyst:DTHSeq Number:3135936	15 Mod	Date Pre	ep: 08.28	.2020 17:00		% Moisture:	8015P Weight	
Tech: DTH Analyst: DTH	15 Mod Cas Number	Date Pre Result	ep: 08.28 RL	.2020 17:00	Units	% Moisture:		Dil
Tech: DTH Analyst: DTH Seq Number: 3135936			1	.2020 17:00	Units mg/kg	% Moisture: Basis: Wet	Weight	Dil
Tech: DTH Analyst: DTH Seq Number: 3135936 Parameter	Cas Number	Result	RL	.2020 17:00		% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: DTH Analyst: DTH Seq Number: 3135936 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <50.1	RL 50.1	.2020 17:00	mg/kg	% Moisture: Basis: Wet Analysis Date 08.28.2020 19:29	Weight Flag U	1
Tech: DTH Analyst: DTH Seq Number: 3135936 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <50.1 <50.1	RL 50.1 50.1	.2020 17:00	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.28.2020 19:29 08.28.2020 19:29	Weight Flag U U	1
Tech: DTH Analyst: DTH Seq Number: 3135936 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result <50.1 <50.1 <50.1 <50.1 <50.1	RL 50.1 50.1 50.1	.2020 17:00 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.28.2020 19:29 08.28.2020 19:29 08.28.2020 19:29 08.28.2020 19:29 08.28.2020 19:29	Weight Flag U U U	1 1 1
Tech: DTH Analyst: DTH Seq Number: 3135936 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 C	Result <50.1 <50.1 <50.1 <50.1 <50.1	RL 50.1 50.1 50.1 50.1 50.1		mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.28.2020 19:29 08.28.2020 19:29 08.28.2020 19:29 08.28.2020 19:29 08.28.2020 19:29 Mnalysis Date	Weight Flag U U U U U Flag	1 1 1

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Sample Id: PH05 A Lab Sample Id: 671316-016		Matrix: Date Collecte	Soil d: 08.27.2020 15:23		Date Received:0 Sample Depth: 2		08
Analytical Method: BTEX by EP	PA 8021B				Prep Method: S	SW5035A	
Tech: MAB Analyst: MAB		Date Prep:	08.28.2020 17:56		% Moisture:		
Seq Number: 3135889		Dute Hep.	0012012020 17180		Basis: V	Vet Weight	
Parameter	Cas Number	Result RI		Units	Analysis Date	- Flag	Dil

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	08.29.2020 08:40	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	08.29.2020 08:40	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	08.29.2020 08:40	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	08.29.2020 08:40	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	08.29.2020 08:40	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	08.29.2020 08:40	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	08.29.2020 08:40	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	98	%	70-130	08.29.2020 08:40		
4-Bromofluorobenzene		460-00-4	109	%	70-130	08.29.2020 08:40		

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Sample Id: PH05 B Lab Sample Id: 671316-017		Matrix: Date Co	Soil ollected: 08.2	7.2020 15:33		Date Received:08. Sample Depth: 4	28.2020 14:	:08
Analytical Method: Inorganic Anio	ns by EPA 300					Prep Method: E30	00P	
Tech: MAB								
Analyst: MAB		Date Pre	ep: 08.2	8.2020 17:09		% Moisture: Basis: We	t Weight	
Seq Number: 3135892						Dusis. We	a weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18.0	10.1		mg/kg	08.28.2020 22:15		1
Analytical Method:TPH by SW80Tech:DTHAnalyst:DTHSeq Number:3135936	15 Mod	Date Pro	ep: 08.2	8.2020 17:00		Prep Method: SW % Moisture: Basis: We	78015P t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	08.28.2020 19:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	08.28.2020 19:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	08.28.2020 19:49	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	08.28.2020 19:49	U	1
Surrogate	С	as Number	% Recovery	Units	Limits	Analysis Date	Flag	
Surrogate 1-Chlorooctane	-	as Number 11-85-3	% Recovery 108	Units %	Limits 70-135	e	0	

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Sample Id: PH05 B Lab Sample Id: 671316-017		Matrix: Date Collecte	Soil d: 08.27.2020 15:33		Date Received: Sample Depth:	08.28.2020 14 4	:08
Analytical Method: BTEX by	EPA 8021B			P	Prep Method:	SW5035A	
Tech: MAB Analyst: MAB			08.28.2020 17:56	%	6 Moisture:		
Seq Number: 3135889		Date Prep:	08.28.2020 17.50	E	Basis:	Wet Weight	
Parameter	Cas Number	Result RI		Inits	Analysis Dat	te Flag	Dil

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	08.29.2020 09:01	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	08.29.2020 09:01	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	08.29.2020 09:01	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	08.29.2020 09:01	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	08.29.2020 09:01	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	08.29.2020 09:01	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	08.29.2020 09:01	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	102	%	70-130	08.29.2020 09:01		
1,4-Difluorobenzene		540-36-3	98	%	70-130	08.29.2020 09:01		

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Sample Id: PH06 Lab Sample Id: 671316-018		Matrix: Date Col	Soil llected: 08.27	.2020 16:37		Date Received:08.2 Sample Depth: 1	8.2020 14	:08
Analytical Method: Inorganic Anic	ons by EPA 300					Prep Method: E300	0P	
Tech: MAB Analyst: MAB			00.20	2020 17:00		% Moisture:		
Analyst: MAB Seq Number: 3135892		Date Prej	p: 08.28	.2020 17:09		Basis: Wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	483	202		mg/kg	08.28.2020 22:20		20
Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3135936	15 Mod	Date Prej	p: 08.28	.2020 17:00		Prep Method: SW8 % Moisture: Basis: Wet	3015P Weight	
Tech: DTH Analyst: DTH	15 Mod Cas Number	Date Prep Result	p: 08.28 RL	.2020 17:00	Units	% Moisture:		Dil
Tech:DTHAnalyst:DTHSeq Number:3135936			-	.2020 17:00	Units mg/kg	% Moisture: Basis: Wet	Weight	Dil 1
Tech: DTH Analyst: DTH Seq Number: 3135936 Parameter	Cas Number	Result	RL	.2020 17:00		% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: DTH Analyst: DTH Seq Number: 3135936 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result	RL 50.2	.2020 17:00	mg/kg	% Moisture: Basis: Wet Analysis Date 08.28.2020 20:09	Weight Flag U	1
Tech: DTH Analyst: DTH Seq Number: 3135936 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <50.2 <50.2	RL 50.2 50.2	.2020 17:00	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.28.2020 20:09 08.28.2020 20:09	Weight Flag U U	1
Tech: DTH Analyst: DTH Seq Number: 3135936 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result <50.2 <50.2 <50.2 <50.2 <50.2 <50.2	RL 50.2 50.2 50.2	.2020 17:00 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.28.2020 20:09 08.28.2020 20:09 08.28.2020 20:09 08.28.2020 20:09	Weight Flag U U U	1 1 1
Tech:DTHAnalyst:DTHSeq Number:3135936ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	Result <50.2 <50.2 <50.2 <50.2 <50.2 <50.2	RL 50.2 50.2 50.2 50.2 50.2		mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.28.2020 20:09 08.28.2020 20:09 08.28.2020 20:09 08.28.2020 20:09 08.28.2020 20:09 08.28.2020 20:09	Weight Flag U U U U U Flag	1 1 1

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Sample Id: Lab Sample Id:	PH06 : 671316-018		Matrix: Date Collected	Soil 1: 08.27.2020 16:37		Date Received Sample Depth		2020 14:0)8
Analytical Met	hod: BTEX by EPA 80211	3				Prep Method:	SW503	35A	
	MAB MAB		Date Prep:	08.28.2020 17:56		% Moisture:			
Seq Number:	3135889		Dute Hep.	0012012020 17100		Basis:	Wet W	eight	
Parameter	(as Number	Result RI		Units	Analysis D	ate	Flag	Dil

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	08.29.2020 09:21	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	08.29.2020 09:21	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	08.29.2020 09:21	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	08.29.2020 09:21	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	08.29.2020 09:21	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	08.29.2020 09:21	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	08.29.2020 09:21	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	105	%	70-130	08.29.2020 09:21		
4-Bromofluorobenzene		460-00-4	108	%	70-130	08.29.2020 09:21		

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Sample Id:PH06 ALab Sample Id:671316-019		Matrix: Date Coll	Soil ected: 08.27.20	020 16:41		Date Received:08.2 Sample Depth: 2.5	Date Received:08.28.2020 14:08 ample Depth: 2.5			
Analytical Method: Inorganic Anio	ns by EPA 300					Prep Method: E300	0P			
Tech: MAB Analyst: MAB		Date Prep	08.28.2	020 17:09		% Moisture:				
Seq Number: 3135892		Duterrep				Basis: Wet	Weight			
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil		
Chloride	16887-00-6	1200	49.5		mg/kg	08.28.2020 22:37		5		
Analytical Method:TPH by SW80Tech:DTHAnalyst:DTHSeq Number:3135936	15 Mod	Date Prep): 08.28.24	020 17:00		Prep Method: SW8 % Moisture: Basis: Wet	3015P Weight			
Tech: DTH Analyst: DTH	15 Mod Cas Number	Date Prep Result	o: 08.28.20 RL	020 17:00	Units	% Moisture:		Dil		
Tech:DTHAnalyst:DTHSeq Number:3135936				020 17:00		% Moisture: Basis: Wet	Weight	Dil 1		
Tech: DTH Analyst: DTH Seq Number: 3135936 Parameter	Cas Number	Result	RL	020 17:00	Units	% Moisture: Basis: Wet Analysis Date	Weight Flag			
Tech: DTH Analyst: DTH Seq Number: 3135936 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <49.8	RL 49.8	020 17:00	Units mg/kg	% Moisture: Basis: Wet Analysis Date 08.28.2020 20:29	Weight Flag U	1		
Tech: DTH Analyst: DTH Seq Number: 3135936 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <49.8 <49.8	RL 49.8 49.8	020 17:00	Units mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.28.2020 20:29 08.28.2020 20:29	Weight Flag U U	1 1		
Tech: DTH Analyst: DTH Seq Number: 3135936 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result <49.8 <49.8 <49.8 <49.8 <49.8	RL 49.8 49.8 49.8	020 17:00 Units	Units mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.28.2020 20:29 08.28.2020 20:29 08.28.2020 20:29 08.28.2020 20:29	Weight Flag U U U	1 1 1		
Tech: DTH Analyst: DTH Seq Number: 3135936 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	Result <49.8 <49.8 <49.8 <49.8 <49.8	RL 49.8 49.8 49.8 49.8 49.8		Units mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.28.2020 20:29 08.28.2020 20:29 08.28.2020 20:29 08.28.2020 20:29 08.28.2020 20:29 Mnalysis Date	Weight Flag U U U U U	1 1 1		

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Sample Id: 1 Lab Sample Id: 6	PH06 A 671316-019		Matrix: Date Collected	Soil : 08.27.2020 16:41		Date Received:08.28.2020 14:0 Sample Depth: 2.5					
5	od: BTEX by EPA 802	1B				Prep Method:	SW5035A				
	ЛАВ ЛАВ		Date Prep:	08.28.2020 17:56		% Moisture: Basis:	Wet Weight				
Seq Number: 3	135889					Dusis.	wet weight				
Paramotor		Cas Number	Result DI		Unito	Analysis De	to Flog	Dil			

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	08.29.2020 09:41	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	08.29.2020 09:41	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	08.29.2020 09:41	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	08.29.2020 09:41	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	08.29.2020 09:41	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	08.29.2020 09:41	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	08.29.2020 09:41	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	95	%	70-130	08.29.2020 09:41		
4-Bromofluorobenzene		460-00-4	107	%	70-130	08.29.2020 09:41		

Certificate of Analytical Results 671316

WSP USA, Dallas, TX RDX 17-25

Sample Id: PH06 B Lab Sample Id: 671316-020		Matrix: Date Col	Soil llected: 08.27	.2020 16:55		Date Received:08.2 Sample Depth: 4.5	8.2020 14	:08
Analytical Method: Inorganic Anio	ns by EPA 300					Prep Method: E30	0P	
Tech: MAB						% Moisture:		
Analyst: MAB Seq Number: 3135892		Date Pre	ep: 08.28	.2020 17:09			Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	969	9.98		mg/kg	08.28.2020 22:43		1
Analytical Method:TPH by SW801Tech:DTHAnalyst:DTHSeq Number:3135936	15 Mod	Date Pre	p: 08.28	.2020 17:00		Prep Method: SW8 % Moisture: Basis: Wet	8015P Weight	
Tech: DTH Analyst: DTH	15 Mod Cas Number	Date Pre Result	p: 08.28 RL	.2020 17:00	Units	% Moisture:		Dil
Tech:DTHAnalyst:DTHSeq Number:3135936			-	.2020 17:00	Units mg/kg	% Moisture: Basis: Wet	Weight	Dil
Tech: DTH Analyst: DTH Seq Number: 3135936 Parameter	Cas Number	Result	RL	.2020 17:00		% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech:DTHAnalyst:DTHSeq Number:3135936ParameterGasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <50.0	RL 50.0	.2020 17:00	mg/kg	% Moisture: Basis: Wet Analysis Date 08.28.2020 20:50	Weight Flag U	1
Tech:DTHAnalyst:DTHSeq Number:3135936ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <50.0 <50.0	RL 50.0 50.0	.2020 17:00	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.28.2020 20:50 08.28.2020 20:50	Weight Flag U U	1 1
Tech:DTHAnalyst:DTHSeq Number:3135936ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result <50.0 <50.0 <50.0 <50.0 <50.0	RL 50.0 50.0 50.0	.2020 17:00 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.28.2020 20:50 08.28.2020 20:50 08.28.2020 20:50 08.28.2020 20:50	Weight Flag U U U	1 1 1
Tech:DTHAnalyst:DTHSeq Number:3135936ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	Result <50.0 <50.0 <50.0 <50.0 <50.0	RL 50.0 50.0 50.0 50.0 50.0		mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.28.2020 20:50 08.28.2020 20:50 08.28.2020 20:50 08.28.2020 20:50	Weight Flag U U U U U Flag	1 1 1

Certificate of Analytical Results 671316

WSP USA, Dallas, TX RDX 17-25

Sample Id: Lab Sample I	PH06 B d: 671316-020	Matrix: Date Collected	Soil d: 08.27.2020 16:55	Date Received:08.28.2020 14:08 Sample Depth: 4.5			
Analytical M	ethod: BTEX by EPA 8021B			Prep Method:	SW5035A		
Tech:	MAB						
Analyst:	MAB	Date Prep:	08.28.2020 17:56	% Moisture: Basis:	Wet Weight		
Seq Number:	3135889			Dasis.	wet weight		

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	08.29.2020 10:02	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	08.29.2020 10:02	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	08.29.2020 10:02	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	08.29.2020 10:02	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	08.29.2020 10:02	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	08.29.2020 10:02	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	08.29.2020 10:02	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	104	%	70-130	08.29.2020 10:02		
1,4-Difluorobenzene		540-36-3	101	%	70-130	08.29.2020 10:02		

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Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected.			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample Det	ection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qua	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labor	ratory Control Sample Duplicate
MD/SD Method Duplicate/Sampl	e Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered f	for this compound.			

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

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Analytical Method: Seq Number:	Inorganic Ani 3135891	ons by	y EPA 300		Matrix:	Solid			Pr	ep Methe Date Pr		0P 8.2020	
MB Sample Id:	7710431-1-BL	K		LCS Sat	nple Id:	7710431-	1-BKS		LCSI	D Sample	e Id: 7710	0431-1-BSD	
Parameter	R	MB esult	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<	<10.0	250	263	105	266	106	90-110	1	20	mg/kg	08.28.2020 18:31	
Analytical Method: Seq Number:	Inorganic Ani 3135892 7710432-1-BL	•	y EPA 300		Matrix:	Solid 7710432-1	1-BKS			ep Methe Date Pr	ep: 08.2	0P 8.2020 0432-1-BSD	
MB Sample Id:	//10432-1-BL	мв	Spike	LCS Sa	LCS	LCSD	LCSD	Limits	%RPD	RPD RPD	Units	Analysis	Flog
Parameter Chloride		esult <10.0	Amount 250	Result 263	%Rec 105	Result 266	% Rec	90-110	1	Limit 20	mg/kg	Date 08.28.2020 21:36	Flag
Cinonde	,	(10.0	250	205	105	200	100	90-110	1	20	iiig/kg	0012012020 21120	
Analytical Method: Seq Number:	3135891	ons by	y EPA 300		Matrix:		04 S			ep Methe Date Pr	ep: 08.2	8.2020	
Parent Sample Id:	671316-004 Pa	rent	Spike	MS Sal MS	mpie Id: MS	671316-00 MSD	MSD	Limits	MSI %RPD	RPD	Units	316-004 SD Analysis	
Parameter	R	esult	Amount	Result	%Rec	Result	%Rec			Limit		Date	Flag
Chloride		6480	200	6690	105	6690	104	90-110	0	20	mg/kg	08.28.2020 20:06	
Analytical Method: Seq Number:	3135892	ons by	y EPA 300		Matrix:	Soil 671316-0	14 5			ep Methe Date Pr	ep: 08.2	0P 8.2020 316-014 SD	
Parent Sample Id:	671316-014 Pa	rent	Spike	MS Sal	MS	MSD	MSD	Limits	%RPD	RPD	Units	Analysis	
Parameter	R	esult	Amount	Result	%Rec	Result	%Rec			Limit		Date	Flag
Chloride	<	<9.94	199	205	103	205	103	90-110	0	20	mg/kg	08.28.2020 21:52	
Analytical Method: Seq Number: Parent Sample Id:	Inorganic Ani 3135892 671325-004	ons by	y EPA 300		Matrix: nple Id:	Soil 671325-00	04 S			ep Methe Date Pr D Sample	ep: 08.2	0P 8.2020 325-004 SD	
Parameter	Pa	rent	Spike	MS	MS	MSD	MSD	Limits	%RPD	RPD	Units	Analysis	Flag
	R	esult	Amount	Result	%Rec	Result	%Rec	00.110		Limit		Date	
Chloride		156	199	353	99	350	97	90-110	1	20	mg/kg	08.28.2020 23:10	
Analytical Method: Seq Number: Parent Sample Id:	Inorganic Ani 3135891 671257-012				Matrix:			90-110		20 rep Metho Date Pr	od: E30		
Analytical Method: Seq Number: Parent Sample Id:	3135891 671257-012 Pa	ons by arent	y EPA 300 Spike	MS Sar MS	Matrix: nple Id: MS	Soil		Junits		ep Meth	od: E30	0P 8.2020 Analysis	Flag
Analytical Method: Seq Number:	3135891 671257-012 Pa	ons by	y EPA 300	MS Sai	Matrix: nple Id:	Soil				ep Meth	od: E30 ep: 08.2	0P 8.2020	Flag

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$

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

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Analytical Method:	TPH by S	W8015 M	od						Pı	rep Meth	od: SW	8015P	
Seq Number:	3135936	135936 Matrix: Solid					Date Prep: 08.28.2020						
MB Sample Id:	7710466-1	6-1-BLK LCS Sample Id: 7710466-1-BKS LCSD Sample Id: 7710466-1							0466-1-BSD				
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	< 50.0	1000	1080	108	1040	104	70-135	4	35	mg/kg	08.28.2020 17:48	
Diesel Range Organics	(DRO)	<50.0	1000	871	87	824	82	70-135	6	35	mg/kg	08.28.2020 17:48	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		102		1	29		117		70	-135	%	08.28.2020 17:48	
o-Terphenyl		80		9	95		86		70	-135	%	08.28.2020 17:48	

Analytical Method:	TPH by SV	W8015 M	od						P	rep Metho	od: SW	8015P	
Seq Number:	3135945				Matrix:	Solid				Date Pr	ep: 08.2	28.2020	
MB Sample Id:	7710492-1	-BLK		LCS San	nple Id:	7710492-	1-BKS		LCS	D Sample	e Id: 771	0492-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<50.0	1000	975	98	945	95	70-135	3	35	mg/kg	08.28.2020 23:52	
Diesel Range Organics	(DRO)	< 50.0	1000	1080	108	1060	106	70-135	2	35	mg/kg	08.28.2020 23:52	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		120		1	33		129		70	-135	%	08.28.2020 23:52	
o-Terphenyl		126		1	30		125		70	-135	%	08.28.2020 23:52	

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW	8015P	
Seq Number:	3135936	Matrix:	Solid	Date Prep:	08.2	8.2020	
		MB Sample Id:	7710466-1-BLK				
Parameter		MB Result		τ	J nits	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)	<50.0		m	ng/kg	08.28.2020 17:28	

Analytical Method: Seq Number:	TPH by SW8015 Mod 3135945	Matrix: MB Sample Id:	Solid 7710492-1-BLK	Prep Method: Date Prep:			
Parameter		MB Result		U	J nits	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)	<50.0		m	ng/kg	08.28.2020 23:32	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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Analytical Method:TPH bySeq Number:3135930Parent Sample Id:671316-	i	d		Matrix: 1ple Id:	Soil 671316-01	5 S			ep Meth Date Pr D Sample	ep: 08.2	8015P 28.2020 316-015 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.8	995	1060	107	1200	120	70-135	12	35	mg/kg	08.28.2020 18:49	
Diesel Range Organics (DRO)	<49.8	995	863	87	847	85	70-135	2	35	mg/kg	08.28.2020 18:49	
Surrogate			M %1	IS Rec	MS Flag	MSD %Ree			mits	Units	Analysis Date	
1-Chlorooctane			1.	38	**	138	**	70	-135	%	08.28.2020 18:49	
o-Terphenyl			10)6		111		70	-135	%	08.28.2020 18:49	

Analytical Method:	TPH by SV	V8015 M	od						Pı	rep Metho	od: SW	8015P	
Seq Number:	3135945]	Matrix:	Soil				Date Pr	ep: 08.2	28.2020	
Parent Sample Id:	671309-001			MS San	nple Id:	671309-00	01 S		MS	D Sample	e Id: 671	309-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	< 50.2	1000	842	84	790	79	70-135	6	35	mg/kg	08.29.2020 00:52	
Diesel Range Organics ((DRO)	< 50.2	1000	769	77	738	74	70-135	4	35	mg/kg	08.29.2020 00:52	
Surrogate					IS Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1-Chlorooctane				1	11		103		70	-135	%	08.29.2020 00:52	
o-Terphenyl				1	04		103		70	-135	%	08.29.2020 00:52	

Analytical Method:	BTEX by EPA 8021	lB						P	rep Meth	od: SW	5035A	
Seq Number:	3135888			Matrix:	Solid				Date Pr	ep: 08.2	28.2020	
MB Sample Id:	7710427-1-BLK		LCS San	nple Id:	7710427-2	I-BKS		LCS	D Sample	e Id: 771	0427-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.100	100	0.105	105	70-130	5	35	mg/kg	08.28.2020 18:47	
Toluene	< 0.00200	0.100	0.0951	95	0.0987	99	70-130	4	35	mg/kg	08.28.2020 18:47	
Ethylbenzene	< 0.00200	0.100	0.0996	100	0.104	104	71-129	4	35	mg/kg	08.28.2020 18:47	
m,p-Xylenes	< 0.00400	0.200	0.202	101	0.212	106	70-135	5	35	mg/kg	08.28.2020 18:47	
o-Xylene	< 0.00200	0.100	0.102	102	0.105	105	71-133	3	35	mg/kg	08.28.2020 18:47	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	100		ç	96		101		70	-130	%	08.28.2020 18:47	
4-Bromofluorobenzene	103		ç	9		100	1	70	-130	%	08.28.2020 18:47	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$

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

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Analytical Method:	BTEX by EPA 8021	IB						P	rep Meth	od: SW	5035A	
Seq Number:	3135889]	Matrix:	Solid				Date Pr	ep: 08.2	28.2020	
MB Sample Id:	7710428-1-BLK		LCS San	ple Id:	7710428-	1-BKS		LCS	D Sampl	e Id: 771	0428-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0955	96	0.101	101	70-130	6	35	mg/kg	08.29.2020 06:03	
Toluene	< 0.00200	0.100	0.0901	90	0.0963	96	70-130	7	35	mg/kg	08.29.2020 06:03	
Ethylbenzene	< 0.00200	0.100	0.0920	92	0.0980	98	71-129	6	35	mg/kg	08.29.2020 06:03	
m,p-Xylenes	< 0.00400	0.200	0.186	93	0.197	99	70-135	6	35	mg/kg	08.29.2020 06:03	
o-Xylene	< 0.00200	0.100	0.0944	94	0.101	101	71-133	7	35	mg/kg	08.29.2020 06:03	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	101		1	00		100		70	-130	%	08.29.2020 06:03	
4-Bromofluorobenzene	107		10	01		99		70	-130	%	08.29.2020 06:03	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 8021 3135888 671257-012	B		Matrix: nple Id:	Soil 671257-01	2 S			rep Metho Date Pro D Sample	ep: 08.2	5035A 28.2020 257-012 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.101	0.0919	91	0.101	101	70-130	9	35	mg/kg	08.28.2020 19:48	
Toluene	< 0.00201	0.101	0.0866	86	0.0954	95	70-130	10	35	mg/kg	08.28.2020 19:48	
Ethylbenzene	< 0.00201	0.101	0.0913	90	0.0987	99	71-129	8	35	mg/kg	08.28.2020 19:48	
m,p-Xylenes	< 0.00402	0.201	0.185	92	0.204	101	70-135	10	35	mg/kg	08.28.2020 19:48	
o-Xylene	< 0.00201	0.101	0.0892	88	0.0991	99	71-133	11	35	mg/kg	08.28.2020 19:48	
Surrogate				IS Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene			9	94		95		70	-130	%	08.28.2020 19:48	
4-Bromofluorobenzene			9	97		102		70	-130	%	08.28.2020 19:48	

Analytical Method:	BTEX by EPA 8021	lB						P	rep Meth	od: SW	5035A	
Seq Number:	3135889]	Matrix:	Soil				Date Pr	ep: 08.2	28.2020	
Parent Sample Id:	671316-014		MS San	nple Id:	671316-01	14 S		MS	D Sampl	e Id: 671	316-014 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00198	0.0990	0.0971	98	0.0891	90	70-130	9	35	mg/kg	08.29.2020 10:22	
Toluene	< 0.00198	0.0990	0.0925	93	0.0823	83	70-130	12	35	mg/kg	08.29.2020 10:22	
Ethylbenzene	< 0.00198	0.0990	0.0941	95	0.0821	83	71-129	14	35	mg/kg	08.29.2020 10:22	
m,p-Xylenes	< 0.00396	0.198	0.190	96	0.165	83	70-135	14	35	mg/kg	08.29.2020 10:22	
o-Xylene	< 0.00198	0.0990	0.0967	98	0.0807	81	71-133	18	35	mg/kg	08.29.2020 10:22	
Surrogate				IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene			9	95		103		70)-130	%	08.29.2020 10:22	
4-Bromofluorobenzene			9	97		100		70	0-130	%	08.29.2020 10:22	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$

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

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Revised Date 022619 Rev. 2019.1		Date/Time		a Sr TI Sn U V Zn 1631/245.1/7470 /7471 : Hg										Sample Comments	TAT starts the day received by the lab, if received by 4:00pm	NaOH: Zn						Cinner o	Preservative Codes	Other:	P Leve	[C Supe		2
619 Rev. 20		ime		71 : Hg										lents	d by the lat							oouco	ondes			[rfund		r 2 0

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Certificate of Analysis Summary 676679

LT Environmental, Inc., Arvada, CO

Project Name: RDX 17-25

034820010 Project Id: Joseph Hernandez **Contact:** NM **Project Location:** Project Manager: Jessica Kramer

Date Received in Lab:	Mon 11.02.2020 15:50
Report Date:	11.05.2020 08:10
Dustant Managem	Jassica Kramer

	Lab Id:	676679-001			
Analysis Requested	Field Id:	CH01@1.5-2'			
Analysis Kequestea	Depth:	1.5-2 ft			
	Matrix:	SOIL			
	Sampled:	10.29.2020 10:00			
BTEX by EPA 8021B	Extracted:	11.03.2020 09:30			
	Analyzed:	11.03.2020 16:09			
	Units/RL:	mg/kg RL			
Benzene		<0.00201 0.00201			
Toluene		<0.00201 0.00201			
Ethylbenzene		<0.00201 0.00201			
m,p-Xylenes		<0.00402 0.00402			
o-Xylene		<0.00201 0.00201			
Total Xylenes		<0.00201 0.00201			
Total BTEX		<0.00201 0.00201			
Chloride by EPA 300	Extracted:	11.02.2020 16:33			
	Analyzed:	11.02.2020 20:22			
	Units/RL:	mg/kg RL			
Chloride		344 9.96			
TPH by SW8015 Mod	Extracted:	11.02.2020 16:30			
	Analyzed:	11.03.2020 01:59			
	Units/RL:	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<50.1 50.1			
Diesel Range Organics (DRO)		79.6 50.1			
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.1			
Total TPH		79.6 50.1			

BRL - Below Reporting Limit

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

Jession Vramer

Page 1 of 12

eurofins Environment Testing Xenco

Analytical Report 676679

for

LT Environmental, Inc.

Project Manager: Joseph Hernandez

RDX 17-25

034820010

11.05.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins Environment Testing

11.05.2020

Project Manager: **Joseph Hernandez LT Environmental, Inc.** 4600 W. 60th Avenue Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): 676679 RDX 17-25 Project Address: NM

Joseph Hernandez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 676679. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 676679 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

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

Page 3 of 12

Environment Testing Xenco

Sample Cross Reference 676679

LT Environmental, Inc., Arvada, CO

RDX 17-25

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH01@1.5-2'	S	10.29.2020 10:00	1.5 - 2 ft	676679-001

Environment Testing Xenco

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: RDX 17-25

 Project ID:
 034820010

 Work Order Number(s):
 676679

 Report Date:
 11.05.2020

 Date Received:
 11.02.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Environment Testing Xenco

Certificate of Analytical Results 676679

LT Environmental, Inc., Arvada, CO RDX 17-25

Sample Id: CH01@1.5-2' Lab Sample Id: 676679-001		Matrix: Date Co	Soil llected: 10.29	.2020 10:00		Date Received:11.02 Sample Depth: 1.5 -		50
Analytical Method: Chloride by EP	PA 300					Prep Method: E300	OP	
Tech: MAB								
Analyst: MAB		Date Pre	ep: 11.02	.2020 16:33		% Moisture: Basis: Wet	Weight	
Seq Number: 3141207						Dusis. Wet	weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	344	9.96		mg/kg	11.02.2020 20:22		1
Analytical Method: TPH by SW80	15 Mod					Prep Method: SW8	3015P	
Tech: MAB Analyst: CAC Seq Number: 3141201		Date Pre	-	.2020 16:30		% Moisture:	3015P Weight	
Tech: MAB Analyst: CAC Seq Number: 3141201 Parameter	15 Mod Cas Number	Date Pre	RL	.2020 16:30	Units	% Moisture:		Dil
Tech: MAB Analyst: CAC Seq Number: 3141201 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result	RL 50.1	.2020 16:30	Units mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 01:59	Weight	Dil
Tech: MAB Analyst: CAC Seq Number: 3141201 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <50.1 79.6	RL 50.1 50.1	.2020 16:30	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 01:59 11.03.2020 01:59	Weight Flag U	
Tech: MAB Analyst: CAC Seq Number: 3141201 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	Result <50.1 79.6 <50.1	RL 50.1 50.1 50.1	.2020 16:30	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 01:59 11.03.2020 01:59 11.03.2020 01:59	Weight Flag	1 1 1
Tech: MAB Analyst: CAC Seq Number: 3141201 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <50.1 79.6	RL 50.1 50.1	.2020 16:30	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 01:59 11.03.2020 01:59	Weight Flag U	1 1
Tech: MAB Analyst: CAC Seq Number: 3141201 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result <50.1	RL 50.1 50.1 50.1	.2020 16:30 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 01:59 11.03.2020 01:59 11.03.2020 01:59 11.03.2020 01:59	Weight Flag U	1 1 1
Tech: MAB Analyst: CAC Seq Number: 3141201 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 C	Result <50.1	RL 50.1 50.1 50.1 50.1 50.1		mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 01:59 11.03.2020 01:59 11.03.2020 01:59 11.03.2020 01:59 11.03.2020 01:59	Weight Flag U U Flag	1 1 1

Environment Test Xenco

Certificate of Analytical Results 676679

LT Environmental, Inc., Arvada, CO RDX 17-25

Sample Id: CH01@1.5-2' Lab Sample Id: 676679-001		Matrix: Date Collecte	Soil d: 10.29.2020 10:00		Date Received Sample Depth:			0
Analytical Method: BTEX by E	EPA 8021B				Prep Method:	SW5035	A	
Tech: MAB Analyst: MAB		Date Prep:	11.03.2020 09:30		% Moisture:		· • .	
Seq Number: 3141311		Ĩ			Basis:	Wet Wei	ight	
Parameter	Cas Number	Result RI		Units	Analysis Da	te Fl	90	Dil

Parameter	Cas Number	r Kesult	KL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	11.03.2020 16:09	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	11.03.2020 16:09	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	11.03.2020 16:09	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	11.03.2020 16:09	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	11.03.2020 16:09	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	11.03.2020 16:09	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	11.03.2020 16:09	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	102	%	70-130	11.03.2020 16:09		
4-Bromofluorobenzene		460-00-4	116	%	70-130	11.03.2020 16:09		

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Environment Testing

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Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

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

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

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QC Summary 676679

LT Environmental, Inc. RDX 17-25

Analytical Method: Seq Number: MB Sample Id:	Chloride b 3141207 7714384-1-	-	00		Matrix: nple Id:	Solid 7714384-	1-BKS			rep Metho Date Pro D Sample	ep: 11.0	0P)2.2020 4384-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	250	253	101	252	7 6 Kec 101	90-110	0	20	mg/kg	11.02.2020 18:55	
	<i></i>										. 520	0D	
Analytical Method: Seq Number:	Chloride b 3141207	y EPA 30	JO		Matrix:	Soil			Pi	rep Metho Date Pro		0P)2.2020	
Parent Sample Id:	676514-005	i				676514-0	05 S		MS		-	514-005 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		3690	199	3900	106	3880	95	90-110	1	20	mg/kg	11.02.2020 19:11	
Analytical Method: Seq Number:	3141207		00		Matrix:		01.0			rep Metho Date Pro	ep: 11.0	02.2020	
Parent Sample Id:	676679-001				-	676679-0				-		679-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		344	200	530	93	542	99	90-110	2	20	mg/kg	11.02.2020 20:28	
Analytical Method: Seq Number: MB Sample Id:	TPH by SV 3141201 7714382-1-		od		Matrix: nple Id:	Solid 7714382-	1-BKS			rep Metho Date Pro D Sample	ep: 11.0	8015P)2.2020 4382-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<50.0	1000	907	91	852	85	70-135	6	35	mg/kg	11.02.2020 18:36	
Diesel Range Organics	(DRO)	<50.0	1000	1040	104	1000	100	70-135	4	35	mg/kg	11.02.2020 18:36	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		95			25		105			-135	%	11.02.2020 18:36	
o-Terphenyl		101		1	.03		101		70	-135	%	11.02.2020 18:36	
Analytical Method: Seq Number:	TPH by SV 3141201	V8015 M	od		Matrix: nple Id:	Solid 7714382-	1-BLK		Pı	rep Metho Date Pro		8015P)2.2020	
Parameter				MB Bogult							Units	Analysis	Flag
Motor Oil Range Hydrocar	bons (MRO)			Result <50.0							mg/kg	Date 11.02.2020 18:16	
											<u>6</u> , KE		

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result

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

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Final 1.000
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Environment Testing

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LT Environmental, Inc.

RDX 17-25

y SW8015 Mo	d						Pi	rep Metho	od: SW	8015P	
1			Matrix:	Soil				Date Pr	ep: 11.0	02.2020	
-007		MS Sar	nple Id:	676514-00)7 S		MS	D Sample	e Id: 676	514-007 SD	
Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
<50.2	1000	837	84	838	84	70-135	0	35	mg/kg	11.02.2020 19:37	
<50.2	1000	910	91	927	93	70-135	2	35	mg/kg	11.02.2020 19:37	
				MS Flag				imits	Units	Analysis Date	
		1	29		133		70	-135	%	11.02.2020 19:37	
		1	18		123		70	-135	%	11.02.2020 19:37	
2 4	01 4-007 Parent Result 0 <50.2	4-007 Parent Spike Result Amount O <50.2 1000	D1	01 Matrix: 4-007 MS Sample Id: Parent Spike MS Result Amount Result %Rec 0 <50.2	Ol Matrix: Soil 4-007 MS Sample Id: 676514-00 Parent Spike MS MS Result Amount Result %Rec Result 0 <50.2	Ol Matrix: Soil 4-007 MS Sample Id: 676514-007 S Parent Spike MS MS MSD MSD Parent Spike MS MS MSD MSD Result Amount Result %Rec Result %Rec 0 <50.2	D1 Matrix: Soil 4-007 MS Sample Id: 676514-007 S Parent Spike MS MS MSD MSD Limits Result Amount Result %Rec Result %Rec 0 <50.2	D1 Matrix: Soil 4-007 MS Sample Id: 676514-007 S MS Parent Spike MS MS MSD MSD Limits %RPD Parent Spike MS MS MSD MSD Limits %RPD Parent Spike MS MS MSD MSD Limits %RPD Result Amount Result %Rec Result %Rec 0	D1 Matrix: Soil Date Pr 4-007 MS Sample Id: 676514-007 S MSD Sample Parent Spike MS MS MSD MSD Limits %RPD RPD Parent Spike MS MS MSD MSD Limits %RPD RPD Parent Spike MS MS MSD MSD Limits %RPD RPD Parent Spike MS MS MSD MSD Limits %RPD RPD Parent Amount Result %Rec Result %Rec 135 0 35 < 50.2	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	D1 Matrix: Soil Date Prep: 11.02.2020 4-007 MS Sample Id: 676514-007 S MSD Sample Id: 676514-007 SD Parent Spike MS MS MSD MSD Limits %RPD RPD Units Analysis Parent Spike MS MS MSD MSD Limits %RPD RPD Units Analysis 0 <50.2

Analytical Method:	BTEX by EPA 8021	B						P	rep Metho	od: SW	5035A	
Seq Number:	3141311			Matrix:	Solid				Date Pr	ep: 11.0	03.2020	
MB Sample Id:	7714461-1-BLK		LCS San	nple Id:	7714461-	1-BKS		LCS	D Sample	e Id: 771	4461-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.101	101	0.106	106	70-130	5	35	mg/kg	11.03.2020 09:56	
Toluene	< 0.00200	0.100	0.0955	96	0.101	101	70-130	6	35	mg/kg	11.03.2020 09:56	
Ethylbenzene	< 0.00200	0.100	0.0976	98	0.102	102	71-129	4	35	mg/kg	11.03.2020 09:56	
m,p-Xylenes	< 0.00400	0.200	0.197	99	0.205	103	70-135	4	35	mg/kg	11.03.2020 09:56	
o-Xylene	< 0.00200	0.100	0.0967	97	0.102	102	71-133	5	35	mg/kg	11.03.2020 09:56	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	104		ç	99		104		70	-130	%	11.03.2020 09:56	
4-Bromofluorobenzene	110		1	03		110		70	-130	%	11.03.2020 09:56	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3141311 676514-007	lB		Matrix: nple Id:	Soil 676514-00)7 S			rep Metho Date Pr D Sample	ep: 11.0	5035A)3.2020 514-007 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.101	0.107	106	0.0886	89	70-130	19	35	mg/kg	11.03.2020 10:41	
Toluene	< 0.00201	0.101	0.0986	98	0.0879	88	70-130	11	35	mg/kg	11.03.2020 10:41	
Ethylbenzene	< 0.00201	0.101	0.0998	99	0.0910	91	71-129	9	35	mg/kg	11.03.2020 10:41	
m,p-Xylenes	< 0.00402	0.201	0.202	100	0.186	93	70-135	8	35	mg/kg	11.03.2020 10:41	
o-Xylene	< 0.00201	0.101	0.102	101	0.0943	94	71-133	8	35	mg/kg	11.03.2020 10:41	
Surrogate				IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	00		101		70	-130	%	11.03.2020 10:41	
4-Bromofluorobenzene			1	07		117		70	-130	%	11.03.2020 10:41	

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

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

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

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Revised Date 051418 Rev. 2018.1						
		6		6		σ
		4		7	0	3
		2	11/2/20 19:50		1	1 anne
Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	: (Signature)	Relinquished by: (Signature)
	terms and conditions sees beyond the control ously negotiated.	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	lient company to Xenco, its at losses or expenses incurred t lbmitted to Xenco, but not ana	es constitutes a valid purchase order from c shall not assume any responsibility for any roject and a charge of \$5 for each sample su	locument and relinquishment of samp liable only for the cost of samples and arge of \$75.00 will be applied to each p	Notice: Signature of this of of service. Xenco will be of Xenco. A minimum cha
Na Sr TI Sn U V Zn 1631/245.1/7470 /7471 : Hg	Ag SiO2	AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U	1 Al Sb As Ba Be I RA Sb As Ba Be C	8RCRA 13PPM Texas 11 / d TCLP / SPLP 6010: 8RCRA	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010 Circle Method(s) a
			1			
			>		/	
						/.
			- × × ×	16/29/20 1000 1.5-2'	1.5-21 S 1/5/	CH21 @
Sample Comments			Numb TPH (E BTEX (Chlorid	Date Time Depth Sampled	Matrix	Sample Identification
lab, if received by 4.50pm			PA 8	Total Containers:	IS: Yes No NIA	Sample Custody Seals:
TAT starts the day recevied by the	1		3015 . 802	-0-2		Cooler Custody Seals:
	1		Moc 1B)	THUNGOT	YON NO	Received Intact:
			4)		1-2/1-0	Temperature (°C):
			5	No Wet Ice: Yes No	IPT Temp Blank: (Yes)	SAMPLE RECEIPT
				Due Date:	Anna Byers	Sampler's Name:
				Rush:	Liner	P.O. Number:
				Routine X	034820010	BL:
Work Order Notes	-	ANALYSIS REQUEST		Turn Around	RDX 17-25	Name:
J Other:	Deliverables: EDD J ADaPT L		Email: ihernandez@ltenv.com & abyers@ttenv.com	Email: jhernandez@lt	281-702-2329	
Ę			Carlsbad, NM 88220	City, State ZIP:	Midland, TX 79705	City, State ZIP:
			5315 Buena Vista Dr	Address:	3300 North A Street	
s FLC {Uperfund	Program: UST/PST PRP rownfields FLC	Progr	WPX Energy	Company Name:	LT Environmental, Inc.	Company Name:
	Work Order Comments		Lynda Laumbach	Bill to: (if different)	Joseph Hernandez	Project Manager:
Page of	0) www.xenco.com	Midland, IX (432-704-3440) EL Faso, IX (913)000-3449 Lubucos, IX (900) 347-1490 75-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	40) EL Paso, IX (910)000-0 (Z (480-355-0900) Atlanta,0	Midiand, 1X (432-104-3440) دار العامي المالية المالية المالية المالية المالية المالية المالية المالية المالية ا Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL	ABORALORIES	EV.
		Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334	00 Dallas, TX (214) 902-030	Houston, TX (281) 240-420		
	Work Order No:	ustody	Chain of Custody			
つ気もリたい						

676679

Final 1.000

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature Range: 0 - 6 degC					
Date/ Time Received: 11.02.2020 03.50.00 PM	Air and Metal samples Acceptable Range: Ambient					
Work Order #: 676679	Temperature Measuring device used : T NM 007					
Sample Recei	pt Checklist Comments					
#1 *Temperature of cooler(s)?	1					
#2 *Shipping container in good condition?	Yes					
#3 *Samples received on ice?	Yes					
#4 *Custody Seals intact on shipping container/ cooler?	Yes					
#5 Custody Seals intact on sample bottles?	Yes					
#6*Custody Seals Signed and dated?	Yes					
#7 *Chain of Custody present?	Yes					
#8 Any missing/extra samples?	Νο					
#9 Chain of Custody signed when relinquished/ received?	Yes					
#10 Chain of Custody agrees with sample labels/matrix?	Yes					
#11 Container label(s) legible and intact?	Yes					
#12 Samples in proper container/ bottle?	Yes					
#13 Samples properly preserved?	Yes					
#14 Sample container(s) intact?	Yes					
#15 Sufficient sample amount for indicated test(s)?	Yes					
#16 All samples received within hold time?	Yes					
#17 Subcontract of sample(s)?	N/A					
#18 Water VOC samples have zero headspace?	N/A					

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

Analyst:

PH Device/Lot#:

Checklist completed by: Martha Castro

Date: 11.02.2020

Checklist reviewed by: Jession Whamer

Jessica Kramer

Date: 11.03.2020

eurofins

Project Id:

Project Location:

Contact:

Xenco

034820010

Joseph Hernandez

Certificate of Analysis Summary 676680

LT Environmental, Inc., Arvada, CO

Project Name: RDX 17-25

Date Received in Lab: Mon 11.02.2020 15:50 **Report Date:** 01.13.2021 16:20 Project Manager: Jessica Kramer

	Lab Id:	676680-001			
Analysis Requested	Field Id:	CH01 @3.5-4'			
Analysis Requested	Depth:	3.5-4 ft			
	Matrix:	SOIL			
	Sampled:	10.29.2020 10:52			
BTEX by EPA 8021B	Extracted:	11.03.2020 09:30			
	Analyzed:	11.03.2020 16:32			
	Units/RL:	mg/kg RL			
Benzene		<0.00200 0.00200			
Toluene		<0.00200 0.00200			
Ethylbenzene		<0.00200 0.00200			
m,p-Xylenes		<0.00400 0.00400			
o-Xylene		<0.00200 0.00200			
Total Xylenes		<0.00200 0.00200			
Total BTEX		<0.00200 0.00200			
Chloride by EPA 300	Extracted:	11.02.2020 16:33			
	Analyzed:	11.02.2020 20:39			
	Units/RL:	mg/kg RL			
Chloride		3230 49.9			
TPH by SW8015 Mod	Extracted:	11.02.2020 16:30			
	Analyzed:	11.03.2020 02:18			
	Units/RL:	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<13.9 50.1			
Diesel Range Organics (DRO)		16.3 J 50.1			
Motor Oil Range Hydrocarbons (MRO)		<11.5 50.1			
Total TPH		16.3 J 50.1			
				1	

BRL - Below Reporting Limit

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

Jession VRAMER

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eurofins Environment Testing Xenco

Analytical Report 676680

for

LT Environmental, Inc.

Project Manager: Joseph Hernandez

RDX 17-25

034820010

01.13.2021

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

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

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

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

01.13.2021

Project Manager: **Joseph Hernandez LT Environmental, Inc.** 4600 W. 60th Avenue Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): 676680 RDX 17-25 Project Address:

Joseph Hernandez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 676680. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 676680 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

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

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Environment Testing Xenco

Sample Cross Reference 676680

LT Environmental, Inc., Arvada, CO

RDX 17-25

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH01 @3.5-4'	S	10.29.2020 10:52	3.5 - 4 ft	676680-001

Environment Testing Xenco

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: RDX 17-25

 Project ID:
 034820010

 Work Order Number(s):
 676680

 Report Date:
 01.13.2021

 Date Received:
 11.02.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 676680

LT Environmental, Inc., Arvada, CO RDX 17-25

Sample Id: CH01 @3.5-4' Lab Sample Id: 676680-001		Matrix: Date Co	Soil llected: 10.29	.2020 10:52		Date Received:11.02 Sample Depth: 3.5 -		:50
Analytical Method: Chloride by EP	PA 300					Prep Method: E300	OP	
Tech: MAB								
Analyst: MAB		Date Pre	ep: 11.02	.2020 16:33		% Moisture: Basis: Wet	Weight	
Seq Number: 3141207						Dusis. Wet	weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3230	49.9		mg/kg	11.02.2020 20:39		5
Analytical Method: TPH by SW80	15 Mod					Prep Method: SW8	3015P	
Analytical Method: TPH by SW80 Tech: MAB Analyst: CAC Seq Number: 3141201	15 Mod	Date Pre	ep: 11.02	.2020 16:30		Prep Method: SW8 % Moisture: Basis: Wet	3015P Weight	
Tech: MAB Analyst: CAC	15 Mod Cas Number	Date Pre Result	ep: 11.02 RL	2020 16:30	Units	% Moisture:		Dil
Tech:MABAnalyst:CACSeq Number:3141201			1	.2020 16:30	Units mg/kg	% Moisture: Basis: Wet	Weight	Dil
Tech: MAB Analyst: CAC Seq Number: 3141201 Parameter	Cas Number	Result	RL	.2020 16:30		% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: MAB Analyst: CAC Seq Number: 3141201 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <13.9	RL 50.1	2020 16:30	mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 02:18	Weight Flag	1
Tech: MAB Analyst: CAC Seq Number: 3141201 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <13.9 16.3	RL 50.1 50.1	.2020 16:30	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 02:18 11.03.2020 02:18	Weight Flag U J	1
Tech: MAB Analyst: CAC Seq Number: 3141201 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result <13.9 16.3 <11.5 16.3	RL 50.1 50.1 50.1	2020 16:30 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 02:18 11.03.2020 02:18 11.03.2020 02:18 11.03.2020 02:18	Weight Flag U J U	1 1 1
Tech: MAB Analyst: CAC Seq Number: 3141201 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 C	Result <13.9 16.3 <11.5 16.3	RL 50.1 50.1 50.1 50.1 50.1		mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 02:18 11.03.2020 02:18 11.03.2020 02:18 11.03.2020 02:18	Weight Flag U J U J	1 1 1

Environment Testing Xenco

Certificate of Analytical Results 676680

LT Environmental, Inc., Arvada, CO RDX 17-25

Sample Id: CH01 @ Lab Sample Id: 676680-0		Matrix: Date Collected	Soil l: 10.29.2020 10:52	Date Received:11.02.2020 15:50 Sample Depth: 3.5 - 4 ft
Analytical Method: BTI	EX by EPA 8021B			Prep Method: SW5035A
Tech: MAB Analyst: MAB		Date Prep:	11.03.2020 09:30	% Moisture: Basis: Wet Weight
Seq Number: 3141311				
Parameter	Cas Number	Result RL	т	Inits Analysis Data Flag Dil

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	11.03.2020 16:32	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	11.03.2020 16:32	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	11.03.2020 16:32	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	11.03.2020 16:32	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	11.03.2020 16:32	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	11.03.2020 16:32	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	11.03.2020 16:32	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	105	%	70-130	11.03.2020 16:32		
4-Bromofluorobenzene		460-00-4	115	%	70-130	11.03.2020 16:32		

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Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected.			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample Det	ection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qua	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labor	ratory Control Sample Duplicate
MD/SD Method Duplicate/Sampl	e Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered f	for this compound.			

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

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QC Summary 676680

LT Environmental, Inc. RDX 17-25

Analytical Method: Seq Number: MB Sample Id:	Chloride by 3141207 7714384-1-1		00		Matrix: nple Id:	Solid 7714384-	1-BKS			rep Metho Date Pro D Sample	ep: 11.0	0P)2.2020 4384-1-BSD	
Parameter		MB	Spike		LCS	LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	Flag
Chloride		Result <10.0	Amount 250	Result 253	%Rec 101	Result 252	%Rec 101	90-110	0	Limit 20	mg/kg	Date 11.02.2020 18:55	
Chionae		<10.0	250	233	101	232	101	90-110	0	20	iiig/kg	11.02.2020 10.55	
=		y EPA 3	00			a 11			Pi	rep Metho			
Seq Number:	3141207 676514-005				Matrix:	Soil 676514-00	15 5		MS	Date Pro)2.2020 514-005 SD	
Parent Sample Id: Parameter	070314-003	Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD	RPD	Units	Analysis	Flag
Chloride		Result 3690	Amount 199	Result 3900	%Rec 106	Result 3880	% Rec 95	90-110	1	Limit 20	mg/kg	Date 11.02.2020 19:11	
Chionae		3090	199	3900	100	3880	93	90-110	I	20	iiig/kg	11.02.2020 19.11	
Analytical Method:	Chloride by 3141207	y EPA 3	00		Moteire	S all			Pi	rep Metho			
Seq Number: Parent Sample Id:	676679-001				Matrix:	676679-00	01 S		MS	Date Pro	-)2.2020 679-001 SD	
i arem Sample id.	070079-001	Parent	Spike	MS Sa	MS			Limits	%RPD	RPD	Units		
Parameter		Result	Amount	Result	%Rec	MSD Result	MSD %Rec	Linnts	70 KF D	Limit	Omts	Analysis Date	Flag
Chloride		344	200	530	93	542	99	90-110	2	20	mg/kg	11.02.2020 20:28	
Analytical Method: Seq Number: MB Sample Id:	TPH by SW 3141201 7714382-1-1		od		Matrix: nple Id:	Solid 7714382-1	1-BKS			rep Metho Date Pro D Sample	ep: 11.0	8015P)2.2020 4382-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<13.9	1000	907	91	852	85	70-135	6	35	mg/kg	11.02.2020 18:36	
Diesel Range Organics	(DRO)	<11.5	1000	1040	104	1000	100	70-135	4	35	mg/kg	11.02.2020 18:36	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		95			25		105			-135	%	11.02.2020 18:36	
o-Terphenyl		101		1	03		101		70	-135	%	11.02.2020 18:36	
Analytical Method: Seq Number:	TPH by SW 3141201	V8015 M	od		Matrix: nple Id:	Solid 7714382-2	1-BLK		Pi	rep Metho Date Pro		8015P)2.2020	
Parameter				MB Begult							Units	Analysis	Flag
Motor Oil Range Hydrocarl	bons (MRO)			Result <11.5							mg/kg	Date 11.02.2020 18:16	
	/			11.5							<u>6</u> , KE		

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result

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

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Final 1.002
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Environment Testing

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QC Summary 676680

LT Environmental, Inc.

RDX 17-25

Analytical Method:	TPH by SV	V8015 M	od						P	rep Metho	od: SW	8015P	
Seq Number:	3141201]	Matrix:	Soil				Date Pr	ep: 11.0	2.2020	
Parent Sample Id: 676514-007				MS San	nple Id:	676514-00)7 S		MS	D Sample	e Id: 676	514-007 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<13.9	1000	837	84	838	84	70-135	0	35	mg/kg	11.02.2020 19:37	
Diesel Range Organics ((DRO)	<11.5	1000	910	91	927	93	70-135	2	35	mg/kg	11.02.2020 19:37	
Surrogate					IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1-Chlorooctane				1	29		133	;	70	-135	%	11.02.2020 19:37	
o-Terphenyl				1	18		123	;	70	-135	%	11.02.2020 19:37	
1-Chlorooctane				%]	Rec 29		% Re 133	c Flag	g 70	-135	%	Date 11.02.2020 19:37	

Analytical Method:	BTEX by EPA 8021	B						P	rep Meth		5035A		
Seq Number:	3141311			Matrix:	Solid				Date Pr	ep: 11.0	03.2020		
MB Sample Id:	7714461-1-BLK		LCS San	nple Id:	7714461-	I-BKS		LCSD Sample Id: 7714461-1-BSD					
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag	
Benzene	< 0.00200	0.100	0.101	101	0.106	106	70-130	5	35	mg/kg	11.03.2020 09:56		
Toluene	< 0.00200	0.100	0.0955	96	0.101	101	70-130	6	35	mg/kg	11.03.2020 09:56		
Ethylbenzene	< 0.00200	0.100	0.0976	98	0.102	102	71-129	4	35	mg/kg	11.03.2020 09:56		
m,p-Xylenes	< 0.00400	0.200	0.197	99	0.205	103	70-135	4	35	mg/kg	11.03.2020 09:56		
o-Xylene	< 0.00200	0.100	0.0967	97	0.102	102	71-133	5	35	mg/kg	11.03.2020 09:56		
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSE %Rec			imits	Units	Analysis Date		
1,4-Difluorobenzene	104		ç	9		104		70	-130	%	11.03.2020 09:56		
4-Bromofluorobenzene	110		1	03		110		70	-130	%	11.03.2020 09:56		

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3141311 676514-007	lB		Matrix: nple Id:	Soil 676514-00)7 S		Prep Method: SW5035A Date Prep: 11.03.2020 MSD Sample Id: 676514-007 SD						
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag		
Benzene	< 0.00201	0.101	0.107	106	0.0886	89	70-130	19	35	mg/kg	11.03.2020 10:41			
Toluene	< 0.00201	0.101	0.0986	98	0.0879	88	70-130	11	35	mg/kg	11.03.2020 10:41			
Ethylbenzene	< 0.00201	0.101	0.0998	99	0.0910	91	71-129	9	35	mg/kg	11.03.2020 10:41			
m,p-Xylenes	< 0.00402	0.201	0.202	100	0.186	93	70-135	8	35	mg/kg	11.03.2020 10:41			
o-Xylene	< 0.00201	0.101	0.102	101	0.0943	94	71-133	8	35	mg/kg	11.03.2020 10:41			
Surrogate				IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date			
1,4-Difluorobenzene			1	00		101		70	-130	%	11.03.2020 10:41			
4-Bromofluorobenzene			1	07		117		70	-130	%	11.03.2020 10:41			

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

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

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

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5	3 Amer By	Relinquished by: (Signature)	Notice: Signature of this document and relin of service. Xenco will be liable only for the c of Xenco. A minimum charge of \$75.00 will l	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed				CHOI@ 3.5-41	Sample Identification	Sample Custody Seals: Yes	Yes		Temperature (°C):	SAMPLE RECEIPT	Sampler's Name: Anna Byers	P.O. Number: Liner	Project Number: 034820010	Project Name: RDX 17-25	Phone: 281-702-2329	City, State ZIP: Midland, TX 79705	Address: 3300 North A Street	Company Name: LT Environmental, Inc	Project Manager: Joseph Hernandez		LABORATORIE		
	4	Received by: (Signature)	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.					S 10/20/20 10/25 3.2	Matrix Date Time D	No N/A Total Containers:	NA	No TUMOT	5	Temp Blank: Yes No Wet Ice: Yes	Due Date:	Rush:	Routine	Turn Around			A Street Address:			Hobbs,NM (5			
	14/4/20 15:50	Date/Time	order from client company to Xenco, its aff bility for any losses or expenses incurred b ch sample submitted to Xenco, but not anal	IRCRA 13PPM Texas11 AI Sb As Ba Be B Cd Ca Cr Co Cu TCLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn			>	3.5-4' 1 X X X	Dept Numbo TPH (El BTEX (I Chlorid	PA 8	f Co 8015	onta 5 Mod 21B)	d)	No			Ø	round	Email: jhernandez@ltenv.com & abyers@ltenv.com	City, State ZIP: Carlsbad, NM 88220		Company Name: WPX Energy	Bill to: (if different) Lynda Laumbach	тоналиц, г. (1907), 1975, 1997, 199	Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334	Chain of Custody	
6	4 1	Relinquished by: (Signature)	filiates and subcontractors. It assigns star y the client if such losses are due to circur yzed. These terms will be enforced unless	Mo														ANALYSIS REQUEST			9r			GA (770-449-8800) Tampa,FL (813-620-2000)	00 San Antonio, TX (210) 509-3334	ustody	
) Received by: (Signature)	ndard terms and conditions mstances beyond the control previously negotiated.	Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Mo Ni Se Ag Ti U 1631/245.							TAT							я т	Deliverables: EDD ADaPT	Reporting:Level II Pvel III T/UST	State of Project:	Program: UST/PST PRP rownfields	Work Order Comments	www.xenco.com		Work Order No:	
Revised Date 051418 Rev. 2018.1		Date/Time		Na Sr TI Sn U V Zn 1631/245.1/7470 /7471 : Hg					Sample Comments	lab, if received by 4:30pm	TAT starts the day recevied by the							Work Order Notes	Other:			FLC Iperfund	nents	Page of /		6 1 .	039941

Final 1.002

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature Range: 0 - 6 degC							
Date/ Time Received: 11.02.2020 03.50.00 PM	Air and Metal samples Acceptable Range: Ambient							
Work Order #: 676680	Temperature Measuring device used : TNM007							
Sample Recei	pt Checklist Comments							
#1 *Temperature of cooler(s)?	1							
#2 *Shipping container in good condition?	Yes							
#3 *Samples received on ice?	Yes							
#4 *Custody Seals intact on shipping container/ cooler?	Yes							
#5 Custody Seals intact on sample bottles?	Yes							
#6*Custody Seals Signed and dated?	Yes							
#7 *Chain of Custody present?	Yes							
#8 Any missing/extra samples?	No							
#9 Chain of Custody signed when relinquished/ received?	Yes							
#10 Chain of Custody agrees with sample labels/matrix?	Yes							
#11 Container label(s) legible and intact?	Yes							
#12 Samples in proper container/ bottle?	Yes							
#13 Samples properly preserved?	Yes							
#14 Sample container(s) intact?	Yes							
#15 Sufficient sample amount for indicated test(s)?	Yes							
#16 All samples received within hold time?	Yes							
#17 Subcontract of sample(s)?	N/A							
#18 Water VOC samples have zero headspace?	N/A							

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

Analyst:

PH Device/Lot#:

Checklist completed by: Martha Castro

Date: 11.02.2020

Checklist reviewed by: Jessica Vramer

Jessica Kramer

Date: 11.03.2020

eurofins Environment Testing Xenco

Certificate of Analysis Summary 676707

LT Environmental, Inc., Arvada, CO

Project Name: RDX 17-25

 Project Id:
 034820010
 Date Received in Lab:
 Mon 11.02.2020 15:50

 Contact:
 Joseph Hernandez
 Report Date:
 11.04.2020 12:59

 Project Location:
 NM
 Project Manager:
 Jessica Kramer

 Lab Id:
 676707-001
 Out
 Contact:
 Contact:
 Contact:
 Mon 11.02.2020 12:59

Analysis Pogyested	Field Id:	CH01 @ 5.5-6'			
Analysis Requested	Depth:	5.5-6 ft			
	Matrix:	SOIL			
	Sampled:	10.29.2020 10:55			
BTEX by EPA 8021B	Extracted:	11.03.2020 14:07			
	Analyzed:	11.03.2020 17:47			
	Units/RL:	mg/kg RL			
Benzene		<0.00202 0.00202			
Toluene		<0.00202 0.00202			
Ethylbenzene		<0.00202 0.00202			
m,p-Xylenes		< 0.00403 0.00403			
o-Xylene		< 0.00202 0.00202			
Total Xylenes		<0.00202 0.00202			
Total BTEX		<0.00202 0.00202			
Inorganic Anions by EPA 300	Extracted:	11.03.2020 13:00			
	Analyzed:	11.03.2020 15:21			
	Units/RL:	mg/kg RL			
Chloride		606 49.9			
TPH by SW8015 Mod	Extracted:	11.03.2020 13:27			
	Analyzed:	11.03.2020 16:21			
	Units/RL:	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0			
Diesel Range Organics (DRO)		<50.0 50.0			
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0			
Total TPH		<50.0 50.0			

BRL - Below Reporting Limit

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

Jession Vramer

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eurofins Environment Testing Xenco

Analytical Report 676707

for

LT Environmental, Inc.

Project Manager: Joseph Hernandez

RDX 17-25

034820010

11.04.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins Environment Testing

11.04.2020

Project Manager: **Joseph Hernandez LT Environmental, Inc.** 4600 W. 60th Avenue Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): 676707 RDX 17-25 Project Address: NM

Joseph Hernandez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 676707. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 676707 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

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

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Xenco

Sample Cross Reference 676707

LT Environmental, Inc., Arvada, CO

RDX 17-25

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH01 @ 5.5-6'	S	10.29.2020 10:55	5.5 - 6 ft	676707-001

Environment Testing Xenco

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: RDX 17-25

 Project ID:
 034820010

 Work Order Number(s):
 676707

Report Date: *11.04.2020* Date Received: *11.02.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 676707

LT Environmental, Inc., Arvada, CO RDX 17-25

Sample Id: CH01 @ 5.5-6' Lab Sample Id: 676707-001		Matrix: Date Coll	Soil ected: 10.29.2	2020 10:55		Date Received:11.0 Sample Depth: 5.5 -		:50
Analytical Method: Inorganic Anio	ns by EPA 300					Prep Method: E300	OP	
Tech: MAB								
Analyst: MAB		Date Prep): 11.03.2	2020 13:00		% Moisture: Basis: Wet	W:-1-4	
Seq Number: 3141306						basis. wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	606	49.9		mg/kg	11.03.2020 15:21		5
Analytical Method: TPH by SW801 Tech: MAB Analyst: CAC Seq Number: 3141297	15 Mod	Date Prep): 11.03.2	2020 13:27		Prep Method: SW8 % Moisture: Basis: Wet	3015P Weight	
Tech: MAB Analyst: CAC	15 Mod Cas Number	Date Prep Result	o: 11.03.2 RL	2020 13:27	Units	% Moisture:		Dil
Tech: MAB Analyst: CAC Seq Number: 3141297		1		2020 13:27		% Moisture: Basis: Wet	Weight	Dil
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter	Cas Number	Result	RL	2020 13:27	Units	% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <50.0	RL 50.0	2020 13:27	Units mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 16:21	Weight Flag U	1
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <50.0 <50.0	RL 50.0 50.0	2020 13:27	Units mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 16:21 11.03.2020 16:21	Weight Flag U U	1 1
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result <50.0 <50.0 <50.0 <50.0	RL 50.0 50.0 50.0	2020 13:27 Units	Units mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Mnalysis Date 11.03.2020 16:21 11.03.2020 16:21 11.03.2020 16:21 11.03.2020 16:21	Weight Flag U U U	1 1 1
Tech:MABAnalyst:CACSeq Number:3141297ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	Result <50.0 <50.0 <50.0 <50.0	RL 50.0 50.0 50.0 50.0		Units mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 16:21 11.03.2020 16:21 11.03.2020 16:21 11.03.2020 16:21 11.03.2020 16:21 Analysis Date	Weight Flag U U U U U	1 1 1

Environment Testing Xenco

Certificate of Analytical Results 676707

LT Environmental, Inc., Arvada, CO RDX 17-25

Sample Id: Lab Sample Id:	CH01 @ 5.5-6' 676707-001		Matrix: Date Collected	Soil : 10.29.2020 10:55	Date Receive Sample Depth	d:11.02.2020 15:50 n: 5.5 - 6 ft	
5	od: BTEX by EPA 802	1B			Prep Method:	SW5035A	
	MAB MAB		Data Davas	11.03.2020 14:07	% Moisture:		
Seq Number: 3			Date Prep:	11.05.2020 14:07	Basis:	Wet Weight	
Donomotor		Cog Number	Docult DI				1

Parameter	Cas Numbe	r Kesult	KL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	2 0.00202		mg/kg	11.03.2020 17:47	U	1
Toluene	108-88-3	< 0.00202	2 0.00202		mg/kg	11.03.2020 17:47	U	1
Ethylbenzene	100-41-4	< 0.00202	2 0.00202		mg/kg	11.03.2020 17:47	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	11.03.2020 17:47	U	1
o-Xylene	95-47-6	< 0.00202	2 0.00202		mg/kg	11.03.2020 17:47	U	1
Total Xylenes	1330-20-7	< 0.00202	2 0.00202		mg/kg	11.03.2020 17:47	U	1
Total BTEX		< 0.00202	2 0.00202		mg/kg	11.03.2020 17:47	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	104	%	70-130	11.03.2020 17:47		
4-Bromofluorobenzene		460-00-4	89	%	70-130	11.03.2020 17:47		

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Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected.			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample Det	ection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qua	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labor	ratory Control Sample Duplicate
MD/SD Method Duplicate/Sampl	e Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered f	for this compound.			

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

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QC Summary 676707

LT Environmental, Inc. RDX 17-25

Analytical Method: Seq Number:	Inorganic A 3141306	Anions by	y EPA 300		Matrix:	Solid			P	rep Metho Date Pr		0P)3.2020	
MB Sample Id:	7714455-1-]	BLK				7714455-	1-BKS		LCS		-	4455-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	250	260	104	259	104	90-110	0	20	mg/kg	11.03.2020 15:10	
Analytical Method: Seq Number:	Inorganic A 3141306	Anions by	y EPA 300		Matrix:	Soil			P	rep Metho Date Pr		0P)3.2020	
Parent Sample Id:	676707-001					676707-0	01 S		MS		-	707-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		606	200	796	95	806	100	90-110	1	20	mg/kg	11.03.2020 15:26	
Analytical Method: Seq Number:	Inorganic A 3141306	Anions by	y EPA 300		Matrix:	Soil			P	rep Methe Date Pr		0P)3.2020	
Parent Sample Id:	676720-001					676720-0	01 S		MS		-	720-001 SD	
-	0,0,20 001	Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD	RPD	Units	Analysis	
Parameter		Result	Amount	Result	%Rec	Result	%Rec			Limit		Date	Flag
Chloride		148	200	361	107	363	108	90-110	1	20	mg/kg	11.03.2020 16:43	
Analytical Method:	TPH by SV	V8015 M	od						P	rep Metho	od: SW	8015P	
Seq Number:	3141297				Matrix:	Solid				Date Pr		03.2020	
MB Sample Id:	7714426-1-	BLK		LCS Sar	nple Id:	7714426-	1-BKS		LCS	D Sample	e Id: 771	4426-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb		<50.0	1000	1180	118	1130	113	70-135	4	35	mg/kg	11.03.2020 15:40 11.03.2020 15:40	
Diesel Range Organics	(DKO)	<50.0	1000	1250	125	1200	120	70-135	4	35	mg/kg	11.05.2020 15.40	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		122			30		126			-135	%	11.03.2020 15:40	
o-Terphenyl		117		1	20		118	5	70	-135	%	11.03.2020 15:40	
Analytical Method:	TPH by SV	V8015 M	od						P	rep Metho	od: SW	8015P	
Seq Number:	3141297				Matrix:					Date Pr		03.2020	
				MB Sar	nple Id:	7714426-	1-BLK						
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)			<50.0							mg/kg	11.03.2020 15:20	
											0.0		

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result

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

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Environment Testing

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LT Environmental, Inc.

RDX 17-25

Analytical Method: Seq Number: Parent Sample Id:	TPH by SV 3141297 676707-00		od		Matrix: nple Id:	Soil 676707-00)1 S			ep Methe Date Pr D Sample	ep: 11.0	8015P)3.2020 707-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<50.3	1010	1130	112	1050	105	70-135	7	35	mg/kg	11.03.2020 16:41	
Diesel Range Organics ((DRO)	<50.3	1010	1150	114	1140	114	70-135	1	35	mg/kg	11.03.2020 16:41	
Surrogate					IS Rec	MS Flag	MSD %Re			mits	Units	Analysis Date	
1-Chlorooctane				12	29		133		70	-135	%	11.03.2020 16:41	
o-Terphenyl				12	23		105		70	-135	%	11.03.2020 16:41	

Analytical Method:	•	lB			G 11 1			Pı	rep Metho	.	5035A	
Seq Number:	3141303		1	Matrix:	Solid				Date Pr	ep: 11.0	03.2020	
MB Sample Id:	7714462-1-BLK		LCS San	nple Id:	7714462-1	I-BKS		LCS	D Sample	e Id: 771	4462-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0975	98	0.0945	95	70-130	3	35	mg/kg	11.03.2020 15:44	
Toluene	< 0.00200	0.100	0.0952	95	0.0926	93	70-130	3	35	mg/kg	11.03.2020 15:44	
Ethylbenzene	< 0.00200	0.100	0.0880	88	0.0861	86	71-129	2	35	mg/kg	11.03.2020 15:44	
m,p-Xylenes	< 0.00400	0.200	0.178	89	0.173	87	70-135	3	35	mg/kg	11.03.2020 15:44	
o-Xylene	< 0.00200	0.100	0.0872	87	0.0851	85	71-133	2	35	mg/kg	11.03.2020 15:44	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSE %Rec			imits	Units	Analysis Date	
1,4-Difluorobenzene	104		1	00		100		70	-130	%	11.03.2020 15:44	
4-Bromofluorobenzene	88		8	35		85		70	-130	%	11.03.2020 15:44	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3141303 676707-001	lB		Matrix: nple Id:	Soil 676707-00)1 S			rep Methe Date Pr D Sample	ep: 11.0	5035A)3.2020 707-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.101	0.129	128	0.117	117	70-130	10	35	mg/kg	11.03.2020 16:29	
Toluene	< 0.00201	0.101	0.123	122	0.111	111	70-130	10	35	mg/kg	11.03.2020 16:29	
Ethylbenzene	< 0.00201	0.101	0.111	110	0.0997	100	71-129	11	35	mg/kg	11.03.2020 16:29	
m,p-Xylenes	< 0.00402	0.201	0.225	112	0.200	100	70-135	12	35	mg/kg	11.03.2020 16:29	
o-Xylene	< 0.00201	0.101	0.109	108	0.0983	98	71-133	10	35	mg/kg	11.03.2020 16:29	
Surrogate				1S Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	01		99		70	-130	%	11.03.2020 16:29	

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

4-Bromofluorobenzene

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

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

85

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

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11.03.2020 16:29

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86

70-130

%

		When they will a	Relinquished by: (Signature)	of service. Xence of the liable only for the cost of ; of Xenco. A minimum charge of \$75.00 will be appli	I otal ZUU.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed Notice: Signature of this document and relianciatement of the second seco					/	CHOI@ 55-6'	nple Identification	Sample Custody Seals: Yes No	Cooler Custody Seals: Yes No	(Tes	Temperature (°C): 1-2 1.0	SAMPLE RECEIPT Temp	Sampler's Name: Anna Byers	P.O. Number: Liner	Project Number: 034820010	Project Name: RDX 17-25	Phone: 281-702-2329	City, State ZIP: Midland, TX 79705	Address: 3300 North A Street	Company Name: LT Environmental, Inc.	Project Manager: Joseph Hernandez		
	C	T T	Received by: (Signature)	of service. Xence will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	0: 8RCRA 13PPM Texas 11 be analyzed TCLP / SPLP 6010: 8RCRA						S 16/20 /30 1055 5.5-6'	Matrix Date Time Depth	otal Containers: 1	N/A Correction Factor: -0-7	NO THINOOT	C Thermometer ID	Temp Blank: Yes No Wet Ice: Yes No	Due Date:		Routine P	Turn Around	Email: ihernandu	705 City, State ZIP:				Hobbs,NM (5	-
6	4	2 CS:51 OR/2/11	Date/Time	rom client company to Xenco, its affiliate any losses or expenses incurred by the ole submitted to Xenco, but not analyzed	Texas11 AISbAsBaBeBC 10:8RCRASbAsBaBeCdC						× × × /	Numb TPH (E BTEX (EPA 80	15 3021	Mod IB))						ltenv.				ifferent) Lynda Laumbach	Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296 Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, CA (770-449-8800) Tampa, FL (8	Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 50
			Relinquished by: (Signature)	es and subcontractors. It assigns stand e client if such losses are due to circum: 1. These terms will be enforced unless p	Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Cr Co Cu Pb Mn Mo Ni Se Ag TI U																ANALYSIS REQUEST						43 Lubbock,TX (806)794-1296 \ (770-449-8800) Tampa,FL (813-620-2000)	San Antonio, TX (210) 509-3334
			Received by: (Signature)	ard terms and conditions stances beyond the control reviously negotiated.	Ag SiO2	7							TA										Reporting:Level II	Ę	Program: UST/PST RP rownfields	Work Order Com	www.xenco.com	
Revised Date 051418 Rev. 2018.1			Date/Time		Na St-TL Sn U V Zn 1631/245.1/7470 /7471 : Hg							Sample Comments	TAT starts the day recevied by the lab, if received by 4:30pm								Work Order Notes	Oth		Ç	s FC Inerfund		Page of	000

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature Ra	ange: 0 - 6 degC
Date/ Time Received: 11.02.2020 03.50.00 PM	Air and Metal samples Acce	eptable Range: Ambient
Work Order #: 676707	Temperature Measuring dev	vice used: T_NM_007
Sample Recei	pt Checklist	Comments
#1 *Temperature of cooler(s)?	1	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6*Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	Samples received in bulk containers.
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	No	
#18 Water VOC samples have zero headspace?	N/A	

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: 11.03.2020

Checklist reviewed by: Jessica WAAMER Jessica Kramer

Date: 11.03.2020

eurofins Environment Testing Xenco

Certificate of Analysis Summary 676709

LT Environmental, Inc., Arvada, CO

Project Name: RDX 17-25

Project Id:034820029Date Received in Lab:Mon 11.02.2020 15:50Contact:Joseph HernandezReport Date:11.05.2020 08:11Project Location:NMProject Manager:Jessica Kramer

	Lab Id:	676709-001			
Analysis Requested	Field Id:	CH02 @ 1-1.5'			
marysis Requested	Depth:	1-1.5 ft			
	Matrix:	SOIL			
	Sampled:	10.29.2020 11:35			
BTEX by EPA 8021B	Extracted:	11.03.2020 09:30			
	Analyzed:	11.03.2020 18:37			
	Units/RL:	mg/kg RL			
Benzene		<0.00201 0.00201			
Toluene		0.00783 0.00201			
Ethylbenzene		0.0187 0.00201			
m,p-Xylenes		0.0368 0.00402			
o-Xylene		0.0433 0.00201			
Total Xylenes		0.0801 0.00201			
Total BTEX		0.107 0.00201			
Inorganic Anions by EPA 300	Extracted:	11.03.2020 13:00			
	Analyzed:	11.03.2020 15:43			
	Units/RL:	mg/kg RL			
Chloride		342 10.0			
TPH by SW8015 Mod	Extracted:	11.03.2020 13:27			
	Analyzed:	11.03.2020 17:42			
	Units/RL:	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2			
Diesel Range Organics (DRO)		<50.2 50.2			
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2			
Total TPH		<50.2 50.2			

BRL - Below Reporting Limit

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

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Analytical Report 676709

for

LT Environmental, Inc.

Project Manager: Joseph Hernandez

RDX 17-25

034820029

11.05.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins Environment Testing

11.05.2020

Project Manager: **Joseph Hernandez LT Environmental, Inc.** 4600 W. 60th Avenue Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): 676709 RDX 17-25 Project Address: NM

Joseph Hernandez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 676709. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 676709 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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Jessica Kramer Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 676709

RDX 17-25

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH02 @ 1-1.5'	S	10.29.2020 11:35	1 - 1.5 ft	676709-001

Environment Testing Xenco

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: RDX 17-25

 Project ID:
 034820029

 Work Order Number(s):
 676709

 Report Date:
 11.05.2020

 Date Received:
 11.02.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 676709

LT Environmental, Inc., Arvada, CO RDX 17-25

Sample Id: CH02 @ 1-1.5' Lab Sample Id: 676709-001		Matrix: Date Col	Soil lected: 10.29.2	2020 11:35		Date Received:11.02 Sample Depth: 1 - 1		50
Analytical Method: Inorganic Anio	ns by EPA 300					Prep Method: E300)P	
Tech: MAB								
Analyst: MAB		Date Prep	p: 11.03.2	2020 13:00		% Moisture: Basis: Wet	Waiaht	
Seq Number: 3141306						Dasis. Wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	342	10.0		mg/kg	11.03.2020 15:43		1
Analytical Method: TPH by SW80	15 Mod					Prep Method: SW8	8015P	
Tech:MABAnalyst:CACSeq Number:3141297		Date Prep		2020 13:27		% Moisture: Basis: Wet	Weight	
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter	Cas Number	Result	RL	2020 13:27	Units	% Moisture: Basis: Wet Analysis Date	Weight Flag	Dil
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result	RL 50.2	2020 13:27	Units mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 17:42	Weight Flag U	1
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <50.2 <50.2	RL 50.2 50.2	2020 13:27	Units mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 17:42 11.03.2020 17:42	Weight Flag U U	1 1
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	Result <50.2 <50.2 <50.2	RL 50.2 50.2 50.2	2020 13:27	Units mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 17:42 11.03.2020 17:42 11.03.2020 17:42	Weight Flag U U U	1 1 1
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <50.2 <50.2	RL 50.2 50.2	2020 13:27	Units mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 17:42 11.03.2020 17:42	Weight Flag U U	1 1
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result <50.2 <50.2 <50.2 <50.2 <50.2 <50.2	RL 50.2 50.2 50.2	2020 13:27 Units	Units mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 17:42 11.03.2020 17:42 11.03.2020 17:42 11.03.2020 17:42	Weight Flag U U U	1 1 1
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH Image Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	Result <50.2 <50.2 <50.2 <50.2 <50.2 <50.2	RL 50.2 50.2 50.2 50.2 50.2		Units mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Maalysis Date 11.03.2020 17:42 11.03.2020 17:42 11.03.2020 17:42 11.03.2020 17:42 Maalysis Date	Weight Flag U U U U	1 1 1

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Certificate of Analytical Results 676709

LT Environmental, Inc., Arvada, CO RDX 17-25

Sample Id: CH02 @ 1-1.5' Lab Sample Id: 676709-001		Matrix: Date Collecte	Soil d: 10.29.2020 11:35		Date Receive Sample Depth			0
Analytical Method: BTEX by EPA 80	21B				Prep Method:	SW503	35A	
Tech: MAB Analyst: MAB		Date Prep:	11.03.2020 09:30		% Moisture: Basis:	Wet W	eight	
Seq Number: 3141311							-	
Parameter	Cas Number	Result RI	_	Units	Analysis D	ate	Flag	Dil

Cas Numbe	i Kesuit	KL		Units	Analysis Date	Flag	DII
71-43-2	< 0.00201	0.00201		mg/kg	11.03.2020 18:37	U	1
108-88-3	0.00783	0.00201		mg/kg	11.03.2020 18:37		1
100-41-4	0.0187	0.00201		mg/kg	11.03.2020 18:37		1
179601-23-1	0.0368	0.00402		mg/kg	11.03.2020 18:37		1
95-47-6	0.0433	0.00201		mg/kg	11.03.2020 18:37		1
1330-20-7	0.0801	0.00201		mg/kg	11.03.2020 18:37		1
	0.107	0.00201		mg/kg	11.03.2020 18:37		1
	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
	540-36-3	98	%	70-130	11.03.2020 18:37		
	460-00-4	120	%	70-130	11.03.2020 18:37		
	71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	71-43-2 <0.00201	71-43-2 <0.00201	71-43-2 <0.00201	71-43-2 <0.00201 0.00201 mg/kg 108-88-3 0.00783 0.00201 mg/kg 100-41-4 0.0187 0.00201 mg/kg 179601-23-1 0.0368 0.00402 mg/kg 95-47-6 0.0433 0.00201 mg/kg 1330-20-7 0.0801 0.00201 mg/kg 0.107 0.00201 mg/kg 540-36-3 98 % 70-130	71-43-2 <0.00201	71-43-2 <0.00201 0.00201 mg/kg 11.03.2020 18:37 U 108-88-3 0.00783 0.00201 mg/kg 11.03.2020 18:37 U 100-41-4 0.0187 0.00201 mg/kg 11.03.2020 18:37 U 179601-23-1 0.0368 0.00402 mg/kg 11.03.2020 18:37 95-47-6 0.0433 0.00201 mg/kg 11.03.2020 18:37 1330-20-7 0.0801 0.00201 mg/kg 11.03.2020 18:37 0.107 0.00201 mg/kg 11.03.2020 18:37 Cas Number % Recovery Units Limits Analysis Date Flag 540-36-3 98 % 70-130 11.03.2020 18:37

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Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

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

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

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QC Summary 676709

LT Environmental, Inc.

RDX 17-25

						1001117	-0						
Analytical Method:	Inorganic A 3141306	Anions b	y EPA 300		Matrix:	Solid			Pi	rep Metho Date Pr		0P 03.2020	
Seq Number:	7714455-1-					7714455-	1-BKS		LCS		-	4455-1-BSD	
MB Sample Id: Parameter	//14455-1-	MB	Spike	LCS	LCS	LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	Flag
		Result	Amount	Result	%Rec	Result	%Rec	00 110	0	Limit	a	Date	
Chloride		<10.0	250	260	104	259	104	90-110	0	20	mg/kg	11.03.2020 15:10	
Analytical Method:	-	Anions b	y EPA 300						Pi	rep Metho			
Seq Number:	3141306				Matrix:		01 G			Date Pr	-	3.2020	
Parent Sample Id:	676707-001	l		MS Sar	nple Id:	676707-0	01 S		MS	D Sample	e Id: 676	707-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		606	200	796	95	806	100	90-110	1	20	mg/kg	11.03.2020 15:26	
Analytical Method:	Inorganic A	Anions b	y EPA 300						Pi	rep Metho		0P	
Seq Number:	3141306				Matrix:					Date Pr	-	3.2020	
Parent Sample Id:	676720-001		<i>a</i> n		-	676720-0						720-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		148	200	361	107	363	108	90-110	1	20	mg/kg	11.03.2020 16:43	
Analytical Method:	TPH by SV	V8015 M	od						Pi	rep Metho		8015P	
Seq Number:	3141297				Matrix:					Date Pr	-	03.2020	
MB Sample Id:	7714426-1-	BLK		LCS Sar	nple Id:	7714426-	1-BKS		LCS	D Sample	e Id: 771	4426-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	< 50.0	1000	1180	118	1130	113	70-135	4	35	mg/kg	11.03.2020 15:40	
Diesel Range Organics	(DRO)	<50.0	1000	1250	125	1200	120	70-135	4	35	mg/kg	11.03.2020 15:40	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		122	0		30	5	126		0	-135	%	11.03.2020 15:40	
o-Terphenyl		117		1	20		118	3	70	-135	%	11.03.2020 15:40	
Analytical Method:	-	V8015 M	od						Pi	rep Metho	od: SW	8015P	
Seq Number:	3141297				Matrix: nple Id:	Solid 7714426-	1-BLK			Date Pr	ep: 11.0	03.2020	
Parameter				MB Result	-						Units	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)			<50.0							mg/kg	11.03.2020 15:20	
				\30.0							mg/κg		

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$

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

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Final 1.000
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QC Summary 676709

LT Environmental, Inc.

RDX 17-25

Analytical Method:	TPH by SW	78015 M	od						Pı	rep Metho	od: SW3	8015P	
Seq Number:	3141297]	Matrix:	Soil				Date Pro	ep: 11.0	3.2020	
Parent Sample Id:	676707-001			MS San	nple Id:	676707-00	01 S		MS	D Sample	e Id: 676	707-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<50.3	1010	1130	112	1050	105	70-135	7	35	mg/kg	11.03.2020 16:41	
Diesel Range Organics (DRO)	< 50.3	1010	1150	114	1140	114	70-135	1	35	mg/kg	11.03.2020 16:41	
Surrogate					IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1-Chlorooctane				12	29		133		70	-135	%	11.03.2020 16:41	
o-Terphenyl				12	23		105		70	-135	%	11.03.2020 16:41	

Analytical Method:	BTEX by EPA 8021	B			G 1' 1			P	rep Metho	.	5035A	
Seq Number:	3141311			Matrix:	Solid				Date Pr	ep: 11.0	03.2020	
MB Sample Id:	7714461-1-BLK		LCS San	nple Id:	7714461-	1-BKS		LCS	D Sample	e Id: 771	4461-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.101	101	0.106	106	70-130	5	35	mg/kg	11.03.2020 09:56	
Toluene	< 0.00200	0.100	0.0955	96	0.101	101	70-130	6	35	mg/kg	11.03.2020 09:56	
Ethylbenzene	< 0.00200	0.100	0.0976	98	0.102	102	71-129	4	35	mg/kg	11.03.2020 09:56	
m,p-Xylenes	< 0.00400	0.200	0.197	99	0.205	103	70-135	4	35	mg/kg	11.03.2020 09:56	
o-Xylene	< 0.00200	0.100	0.0967	97	0.102	102	71-133	5	35	mg/kg	11.03.2020 09:56	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	104		ç	9		104		70	-130	%	11.03.2020 09:56	
4-Bromofluorobenzene	110		1	03		110		70	-130	%	11.03.2020 09:56	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3141311 676514-007	lB		Matrix: nple Id:	Soil 676514-00)7 S			rep Metho Date Pro D Sample	ep: 11.0	5035A)3.2020 514-007 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.101	0.107	106	0.0886	89	70-130	19	35	mg/kg	11.03.2020 10:41	
Toluene	< 0.00201	0.101	0.0986	98	0.0879	88	70-130	11	35	mg/kg	11.03.2020 10:41	
Ethylbenzene	< 0.00201	0.101	0.0998	99	0.0910	91	71-129	9	35	mg/kg	11.03.2020 10:41	
m,p-Xylenes	< 0.00402	0.201	0.202	100	0.186	93	70-135	8	35	mg/kg	11.03.2020 10:41	
o-Xylene	< 0.00201	0.101	0.102	101	0.0943	94	71-133	8	35	mg/kg	11.03.2020 10:41	
Surrogate				IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	00		101		70	-130	%	11.03.2020 10:41	
4-Bromofluorobenzene			1	07		117		70	-130	%	11.03.2020 10:41	

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

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

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

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		Marine B	(Signature)	Palinguished by: (Circuit)	of service. Xenco will be liable only for the cost o	Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010 200.8 / 6020:						CH02@1-1.5'	Sample Identification	Sample Custody Seals: Yes No	Yes	(Tes	1-2	SAMPLE RECEIPT Tem	Sampler's Name: Anna Byers	P.O. Number: Liner	Project Number: 034820010	Project Name: RDX 17-25	Phone: 281-702-2329	ate ZIP:	Address: 3300 North A Street	y Name:	Project Manager: Joseph Hernandez		LABORATORIE
	4	to	Received by: (Signature)	plied to each project and a charge of \$5 for each si	hment of samples constitutes a valid purchase ord. If samples and shall not assume any responsibility	be analyzed TCLP / SPLP 6010: 8RCRA	BRCRA 13DDM					101 101	1-1-	Matrix Sampled Sampled Depth	N/A Total C	N/A Correction Factor: - 0	NO THINGUT	The	Temp Blank: Yes No Wet Ice: Yes	Due Date:		Routine	Turn Around	Email: jherna			nc.		Hobbs,NM (5	17
0	4	202-51 02/211	Date/Time Relinquished by: (Signa	or vence. A minimum charge of \$75,00 will be applied to each project and a charge of \$5 for each sample submitted to Xence, but not analyzed. These terms will be enforced unless previously negotiated.	of service. Xenco will be liable only for the cost of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client from the response of the service.	1924 AS IN AN AS BABE B COLCA CY CO CUFE PB Mg Mn 10:8RCRA Sb As BaBe Col Cy Co Cu Pb Mn Mo Ni Se Ag						-	× 1	Numi TPH (BTEX	EPA 8((EPA a) de (EP	015 802 [.]	Mod 1B))	No				ANALYSIS	Email: hernandez@ltenv.com & abyers@ltenv.com	City, State ZIP: Carlsbad, NM 88220			Bill to: (if different) Lynda Laumbach	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL	Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334 Midland, TX (432-704-5440) EL Paso, TX (915)565-3443 Lubbock, TX (806)794-1296
			ignature) Received by: (Signature)	o circumstances beyond the control unless previously negotiated.		Ag SiO2		/						Sa	TAT sta lab.								REOUEST	ADaPT	Bvel III		Program: UST/PST PRP rownfields d	Work Order Com	13-620-2000) www.xenco.com	
Revised Date 051418 Rev. 2018.1			Date/Time			Na Sr TI Sn U V Zn 1631/245.1/7470 / 7471 : Hg	/							Sample Comments	TAT starts the day received by the lab, if received by 4:30pm							Solv Older NOtes	Work Order Notes	her:					Page 1 of 1	01-01-01-01

Final 1.000

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature R	ange: 0 - 6 degC
Date/ Time Received: 11.02.2020 03.50.00 PM	Air and Metal samples Acc	eptable Range: Ambient
Work Order #: 676709	Temperature Measuring de	evice used : T_NM_007
Sample Recei	ot Checklist	Comments
#1 *Temperature of cooler(s)?	1	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6*Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	Samples received in bulk containers.
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	No	
#18 Water VOC samples have zero headspace?	N/A	

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: 11.03.2020

Checklist reviewed by: Jessica WAAMER Jessica Kramer

Date: 11.03.2020

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Certificate of Analysis Summary 676712

LT Environmental, Inc., Arvada, CO

Project Name: RDX 17-25

Project Id:034820029Date Received in Lab:Mon 11.02.2020 15:50Contact:Joseph HernandezReport Date:11.05.2020 08:14Project Location:NMProject Manager:Jessica Kramer

Lab Id:	676712-00)1					
Field Id:	CH02 @ 1.5	- 2'					
Depth:	1.5-2 ft						
Matrix:	SOIL						
Sampled:	10.29.2020 1	1:48					
Extracted:	11.03.2020 0	9:30					
Analyzed:	11.04.2020 1	0:23					
Units/RL:	mg/kg	RL					
	< 0.0196	0.0196					
	< 0.0196	0.0196					
	0.0667	0.0196					
	0.377	0.0392					
	0.150	0.0196					
	0.527	0.0196					
	0.594	0.0196					
Extracted:	11.03.2020 1	3:00					
Analyzed:	11.03.2020 1	5:54					
Units/RL:	mg/kg	RL					
	660	10.0					
Extracted:	11.03.2020 1	3:27					
Analyzed:	11.03.2020 1	8:22					
Units/RL:	mg/kg	RL					
	88.2	50.0					
	748	50.0					
	59.4	50.0					
	896	50.0					
	Field Id: Depth: Matrix: Sampled: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL:	Field Id: CH02 @ 1.5 Depth: 1.5-2 ft Matrix: SOIL Sampled: 10.29.2020 ft Extracted: 11.03.2020 ft Matrix: SOIL Sampled: 11.03.2020 ft Littic ft mg/kg Colored 0.0196 Outis/RL: mg/kg Outis/RL: 0.00667 O.00667 0.377 O.150 0.527 O.594 0.594 Extracted: 11.03.2020 ft Analyzed: 11.03.2020 ft Units/RL: mg/kg G660 11.03.2020 ft Analyzed: 11.03.2020 ft Units/RL: mg/kg S8.2 748 S9.4 59.4	Field Id: CH02 @ 1.5- 2' Depth: 1.5-2 ft Matrix: SOIL Sampled: 10.29.2020 11:48 Extracted: 11.03.2020 09:30 Analyzed: 11.04.2020 10:23 Units/RL: mg/kg RL <	Field Id: CH02 @ 1.5- 2' Depth: 1.5-2 ft Matrix: SOIL Sampled: 10.29.2020 11:48 Extracted: 11.03.2020 09:30 Analyzed: 11.04.2020 10:23 Units/RL: mg/kg RL <0.0196 0.0196 0.0667 0.0196 0.0377 0.0392 Extracted: 11.03.2020 13:00 Extracted: 11.03.2020 13:00 Extracted: 11.03.2020 15:54 Units/RL: mg/kg RL Matrix/RL: mg/kg RL Units/RL: mg/kg RL	Field Id: CH02 @ 1.5- 2' Depth: 1.5-2 ft Matrix: SOIL Sampled: 10.29.2020 11:48 Extracted: 11.03.2020 09:30 Analyzed: 11.04.2020 10:23 Units/RL: mg/kg RL <0.0196 0.0196 <0.0196 0.0196 <0.0196 0.0196 0.0667 0.0196 0.377 0.392 0.150 0.0196 0.527 0.0196 0.594 0.0196 Extracted: 11.03.2020 13:00 Intervention Analyzed: 11.03.2020 13:27 Intervention Kanalyzed: 11.03.2020 13:27 Intervention Analyzed: 11.03.2020 13:27 Intervention Kanalyzed: 11.03.2020 13:27 Intervention Manalyzed: 11.03.2020 13:27 Intervention Kanalyzed: 11.03.2020 18:22 Intervention Units/RL: mg/kg RL Intervention Kanalyzed: 11.	Field Id: CH02 @ 1.5- 2' Depth: 1.5-2 ft Matrix: SOIL Sampled: 10.29.2020 11:48 Extracted: 11.03.2020 09:30 Analyzed: 11.04.2020 10:23 Units/RL: mg/kg RL Sono 0.0196 0.0196 0.0196	Field Hd: CH02 @ 1.5- 2' Depth: 1.5-2 ft Matrix: SOIL Sampled: 10.29.2020 11:48 Extracted: 11.03.2020 09:30 Analyzed: 11.04.2020 10:23 Units/RL: mg/kg RL 0.0196 0.0196 0.00667 0.0196 0.0150 0.0196 0.0150 0.0196 0.057 0.0196 0.0527 0.0196 0.0527 0.0196 Mankyzed: 11.03.2020 13:00 Analyzed: 11.03.2020 15:54 Units/RL: mg/kg RL 660 10.0 660 10.0 Mankyzed: 11.03.2020 13:27 Analyzed: 11.03.2020 13:27 Mankyzed: 11.03.2020 18:22 Units/RL: mg/kg RL

BRL - Below Reporting Limit

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

Jession Vramer

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eurofins Environment Testing Xenco

Analytical Report 676712

for

LT Environmental, Inc.

Project Manager: Joseph Hernandez

RDX 17-25

034820029

11.05.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins Environment Testing

11.05.2020

Project Manager: **Joseph Hernandez LT Environmental, Inc.** 4600 W. 60th Avenue Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): 676712 RDX 17-25 Project Address: NM

Joseph Hernandez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 676712. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 676712 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 676712

LT Environmental, Inc., Arvada, CO

RDX 17-25

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH02 @ 1.5- 2'	S	10.29.2020 11:48	1.5 - 2 ft	676712-001

Environment Testing Xenco

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: RDX 17-25

 Project ID:
 034820029

 Work Order Number(s):
 676712

 Report Date:
 11.05.2020

 Date Received:
 11.02.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

eurofins Environment Testing Xenco

Certificate of Analytical Results 676712

LT Environmental, Inc., Arvada, CO RDX 17-25

Sample Id: CH02 @ 1.5- 2' Lab Sample Id: 676712-001		Matrix: Date Colle	Soil cted: 10.29	.2020 11:48		Date Received:11 Sample Depth: 1.5		:50
Analytical Method: Inorganic Anion	s by EPA 300					Prep Method: E3	300P	
Tech: MAB								
Analyst: MAB		Date Prep:	11.03	.2020 13:00		% Moisture: Basis: W	et Weight	
Seq Number: 3141306							et weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	660	10.0		mg/kg	11.03.2020 15:54		1
Analytical Method:TPH by SW8015Tech:MABAnalyst:CACSeq Number:3141297	5 Mod	Date Prep:	11.03	.2020 13:27		Prep Method: SW % Moisture: Basis: W	W8015P et Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	88.2	50.0		mg/kg	11.03.2020 18:22		
Direct Damas (DDO)		- 10	50.0		4	11 02 2020 18.22		1
Diesel Range Organics (DRO)	C10C28DRO	748	50.0		mg/kg	11.03.2020 18:22		1 1
Motor Oil Range Hydrocarbons (MRO)	C10C28DRO PHCG2835	748 59.4	50.0 50.0		mg/kg mg/kg	11.03.2020 18:22		
								1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835 PHC635	59.4 896	50.0	Units	mg/kg	11.03.2020 18:22 11.03.2020 18:22		1 1
Motor Oil Range Hydrocarbons (MRO) Total TPH	РНСG2835 РНС635 Са	59.4 896	50.0 50.0	Units %	mg/kg mg/kg	11.03.2020 18:22 11.03.2020 18:22 Analysis Dat	e Flag	1 1

Environment Testing Xenco

Certificate of Analytical Results 676712

LT Environmental, Inc., Arvada, CO RDX 17-25

Sample Id: CH02 @ 1.5- 2' Lab Sample Id: 676712-001		Matrix: Date Collecte	Soil d: 10.29.2020 11:48		Date Received Sample Depth	d:11.02.2020 1 n: 1.5 - 2 ft	5:50
Analytical Method: BTEX by EPA 80	21B				Prep Method:	SW5035A	
Tech: MAB Analyst: MAB		Date Prep:	11.03.2020 09:30		% Moisture: Basis:	Wet Weight	
Seq Number: 3141311					Dubis	wet weight	
Parameter	Cas Number	Result RI	,	Units	Analysis D	ate Flag	Dil

r al alletel	Cas Nullibe	i Kesult	KL		Units	Analysis Date	riag	DII
Benzene	71-43-2	<0.0196	6 0.0196		mg/kg	11.04.2020 10:23	U	1
Toluene	108-88-3	< 0.0196	6 0.0196		mg/kg	11.04.2020 10:23	U	1
Ethylbenzene	100-41-4	0.0667	0.0196		mg/kg	11.04.2020 10:23		1
m,p-Xylenes	179601-23-1	0.377	0.0392		mg/kg	11.04.2020 10:23		1
o-Xylene	95-47-6	0.150	0.0196		mg/kg	11.04.2020 10:23		1
Total Xylenes	1330-20-7	0.527	0.0196		mg/kg	11.04.2020 10:23		1
Total BTEX		0.594	0.0196		mg/kg	11.04.2020 10:23		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	95	%	70-130	11.04.2020 10:23		
4-Bromofluorobenzene		460-00-4	106	%	70-130	11.04.2020 10:23		

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Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected.			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample Det	ection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qua	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labor	ratory Control Sample Duplicate
MD/SD Method Duplicate/Sampl	e Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered f	for this compound.			

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

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QC Summary 676712

LT Environmental, Inc.

RDX 17-25

Analytical Method: Seq Number:	Inorganic <i>A</i> 3141306	Anions by	y EPA 300		Matrix:	Solid			P	rep Methe Date Pr		0P 03.2020	
MB Sample Id:	7714455-1-	BLK				7714455-	1-BKS		LCS		-	4455-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	250	260	104	259	104	90-110	0	20	mg/kg	11.03.2020 15:10	
Analytical Method:	-	Anions b	y EPA 300		M / .	0.1			P	rep Meth			
Seq Number: Parent Sample Id:	3141306 676707-001				Matrix: uple Id:	5011 676707-0	01 S		MS	Date Pr D Sample	-)3.2020 707-001 SD	
•	0/0/0/ 001	Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD	RPD	Units	Analysis	
Parameter		Result	Amount	Result	%Rec	Result	%Rec	Linits	/ori D	Limit	Cints	Date	Flag
Chloride		606	200	796	95	806	100	90-110	1	20	mg/kg	11.03.2020 15:26	
Analytical Method: Seq Number:	Inorganic A 3141306	Anions b	y EPA 300		Matrix:	Soil			P	rep Meth Date Pr		0P 03.2020	
Parent Sample Id:	676720-001					676720-0	01 S		MS		-	720-001 SD	
-	0,0,20 001	Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD	RPD	Units	Analysis	
Parameter		Result	Amount	Result	%Rec	Result	%Rec		, viu 2	Limit		Date	Flag
Chloride		148	200	361	107	363	108	90-110	1	20	mg/kg	11.03.2020 16:43	
A		1001 5 14							D	Ma	1 634	901 5 D	
Analytical Method: Seq Number:	3141297	V 8015 M	od		Matrix:	Solid			P	rep Meth Date Pr		8015P)3.2020	
MB Sample Id:	7714426-1-	BLK				7714426-	1-BKS		LCS		-	4426-1-BSD	
-		MB	Spike	LCS	LCS	LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	Flag
Parameter		Result	Amount	Result	%Rec	Result	%Rec			Limit		Date	Flag
Gasoline Range Hydrocarb Diesel Range Organics		<50.0 <50.0	1000 1000	1180 1250	118 125	1130 1200	113 120	70-135 70-135	4 4	35 35	mg/kg	11.03.2020 15:40 11.03.2020 15:40	
Dieser Kange Organics	(DKO)	<50.0	1000	1230	123	1200	120	70-135	4	35	mg/kg	11.03.2020 15.10	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		122	Ting		.30	riag	126		0)-135	%	11.03.2020 15:40	
o-Terphenyl		117			20		118)-135	%	11.03.2020 15:40	
Analytical Method:	-	V8015 M	od		M. / *	0 1 1			P	rep Meth		8015P	
Seq Number:	3141297				Matrix:	Solid 7714426-	1-BI K			Date Pr	ep: 11.0	03.2020	
					npie iu.	//1++20-					Unita	Anolusia	
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)			<50.0							mg/kg	11.03.2020 15:20	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$

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

.

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Environment Testing

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LT Environmental, Inc.

RDX 17-25

Analytical Method: Seq Number: Parent Sample Id:	TPH by SV 3141297 676707-00		od		Matrix: nple Id:	Soil 676707-00)1 S			ep Methe Date Pr D Sample	ep: 11.0	8015P)3.2020 707-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<50.3	1010	1130	112	1050	105	70-135	7	35	mg/kg	11.03.2020 16:41	
Diesel Range Organics ((DRO)	<50.3	1010	1150	114	1140	114	70-135	1	35	mg/kg	11.03.2020 16:41	
Surrogate					IS Rec	MS Flag	MSD %Re			mits	Units	Analysis Date	
1-Chlorooctane				1	29		133		70	-135	%	11.03.2020 16:41	
o-Terphenyl		1	23		105	105 70-135 % 11.03.2020 16:41							

Analytical Method:	BTEX by EPA 8021	B						P	rep Meth		5035A	
Seq Number:	3141311			Matrix:	Solid				Date Pr	ep: 11.0	03.2020	
MB Sample Id:	7714461-1-BLK		LCS San	nple Id:	7714461-	I-BKS		LCS	D Sample	e Id: 771	4461-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.101	101	0.106	106	70-130	5	35	mg/kg	11.03.2020 09:56	
Toluene	< 0.00200	0.100	0.0955	96	0.101	101	70-130	6	35	mg/kg	11.03.2020 09:56	
Ethylbenzene	< 0.00200	0.100	0.0976	98	0.102	102	71-129	4	35	mg/kg	11.03.2020 09:56	
m,p-Xylenes	< 0.00400	0.200	0.197	99	0.205	103	70-135	4	35	mg/kg	11.03.2020 09:56	
o-Xylene	< 0.00200	0.100	0.0967	97	0.102	102	71-133	5	35	mg/kg	11.03.2020 09:56	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSE %Rec			imits	Units	Analysis Date	
1,4-Difluorobenzene	104		ç	9		104		70	-130	%	11.03.2020 09:56	
4-Bromofluorobenzene	110		1	03		110		70	-130	%	11.03.2020 09:56	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3141311 676514-007	lB] MS San	Matrix: nple Id:)7 S			rep Metho Date Pr D Sample	ep: 11.0	5035A)3.2020 514-007 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.101	0.107	106	0.0886	89	70-130	19	35	mg/kg	11.03.2020 10:41	
Toluene	< 0.00201	0.101	0.0986	98	0.0879	88	70-130	11	35	mg/kg	11.03.2020 10:41	
Ethylbenzene	< 0.00201	0.101	0.0998	99	0.0910	91	71-129	9	35	mg/kg	11.03.2020 10:41	
m,p-Xylenes	< 0.00402	0.201	0.202	100	0.186	93	70-135	8	35	mg/kg	11.03.2020 10:41	
o-Xylene	< 0.00201	0.101	0.102	101	0.0943	94	71-133	8	35	mg/kg	11.03.2020 10:41	
Surrogate				IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	00		101		70)-130	%	11.03.2020 10:41	
4-Bromofluorobenzene			1	07		117		70)-130	%	11.03.2020 10:41	

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

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

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

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Ŭ	3	"Um h	Relinquished by: (Signature)	of service. Xenco will be liable only for the cost of of Xenco. A minimum charge of \$75.00 will be app	Circle Method(s) and Metal(s) to be analyzed						CH\$2@1.5-2'	Sample Identification N	Yes No	Cooler Custody Seals: Yes Alo	Received Intact:	Temperature (°C):	SAMPLE RECEIPT Temp	Sampler's Name: Anna Byers	P.O. Number: Liner	Project Number: 034820010	Project Name: RDX 17-25	Phone: 281-702-2329	City, State ZIP: Midland, TX 79705	Address: 3300 North A Street	Company Name: LT Environmental, Inc	Project Manager: Joseph Hernandez		LABORATORIE	
		(f	Reseived by: (Signature)	or survice. Survivie or this document and reiniquisment of samples constitutes a valid purchase order from client company to Xonco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	20: 8RCRA 13PPM Texas 11 be analyzed TCLP / SPLP 6010: 8RCRA						S 10/0/20 1148 1.5-2	Matrix Date Time Depth		N/A Correction Factor: -0-2	NO THINGOT	1-0 (Thermometer ID	Temp Blank: Yes No Wet Ice: Yes No	Due Date:	Rush: (Routine X	Turn Around	Email: jhernande	05 City, State ZIP:	reet Address:	al, Inc. Company Name:	lez Bill to: (if different)	Hobbs,NM (575-392-7550) Phc		
σ	4	11/2/20 15:50 2	Date/Time Relinqui	rom client company to Xenco, its affiliates and subc rany losses or expenses incurred by the client if su ple submitted to Xenco, but not analyzed. These ter	Texas 11 Al Sb As Ba Be B Cd Ca Cr 10: 8RCRA Sb As Ba Be Cd Cr Co Cu				>		、 1 × × ×	Numb TPH (E BTEX (EPA 80	15 I 3021	Mod IB))						Email: jhernandez@ltenv.com & abyers@ltenv.com		5315 Buena Vista Dr	Name: WPX Energy	fferent) Lynda Laumbach	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296	Chain of Custody
			Relinquished by: (Signature) Received	ontractors. It assigns standard terms and condition ch losses are due to circumstances beyond the contra- ms will be enforced unless previously negotiated.	Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag Cu Pb Mn Mo Ni Se Ag TI U				2												ANALYSIS REQUEST	Deliverables: EDD	Reporting:Level II	State of Project:	Program: UST/PST		FL (813-620-2000)	9-3334 -1296	
Revised Date 051418 Rev. 2018.1			Received by: (Signature) Date/Time	<u>o</u> «	e Ag SiO2 Na Sr Ti Sn U V Zn 1631/245.1/7470/7471:Hg	/	/					Sample Comments	IAI starts the day received by the lab, if received by 4:30pm								Work Order Notes	ADaPT Other:			PRP Prownfields FDc Sperfund	Work Order Comments	www.xenco.com Page of		Work Order No: (Atlat12

Final 1.000

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature R	ange: 0 - 6 degC
Date/ Time Received: 11.02.2020 03.50.00 PM	Air and Metal samples Acc	eptable Range: Ambient
Work Order #: 676712	Temperature Measuring de	evice used : T_NM_007
Sample Recei	pt Checklist	Comments
#1 *Temperature of cooler(s)?	1	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6*Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	Samples received in bulk containers.
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	No	
#18 Water VOC samples have zero headspace?	N/A	

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: 11.03.2020

Checklist reviewed by: Jessica Kramer

Date: 11.03.2020

eurofins Environment Testing Xenco

Certificate of Analysis Summary 676713

LT Environmental, Inc., Arvada, CO

Project Name: RDX 17-25

 Project Id:
 034820010
 Date Received in Lab:
 Mon 11.02.2020 15:50

 Contact:
 Joseph Hernandez
 Report Date:
 11.05.2020 08:36

 Project Location:
 NM
 Project Manager:
 Jessica Kramer

 Lab Id:
 676713-001
 Out
 Image:
 Im

	Lab Id:	676713-00	1			
Analysis Requested	Field Id:	CH02 @3.5-	-4'			
Analysis Requested	Depth:	3.5-4 ft				
	Matrix:	SOIL				
	Sampled:	10.29.2020 12	2:10			
BTEX by EPA 8021B	Extracted:	11.03.2020 09	9:30			
	Analyzed:	11.03.2020 19	9:44			
	Units/RL:	mg/kg	RL			
Benzene		<0.00202 0	0.00202			
Toluene		0.0244 0	0.00202			
Ethylbenzene		0.0502 0	0.00202			
m,p-Xylenes			0.00403			
o-Xylene			0.00202			
Total Xylenes			0.00202			
Total BTEX		0.647 0	0.00202			
Inorganic Anions by EPA 300	Extracted:	11.03.2020 13	3:00			
	Analyzed:	11.03.2020 10	6:10			
	Units/RL:	mg/kg	RL			
Chloride		212	10.0			
TPH by SW8015 Mod	Extracted:	11.03.2020 13	3:27			
	Analyzed:	11.03.2020 18	8:43			
	Units/RL:	mg/kg	RL			
Gasoline Range Hydrocarbons (GRO)		60.4	50.2			
Diesel Range Organics (DRO)		298	50.2			
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2			
Total TPH		358	50.2			

BRL - Below Reporting Limit

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

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Analytical Report 676713

for

LT Environmental, Inc.

Project Manager: Joseph Hernandez

RDX 17-25

034820010

11.05.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins Environment Testing

11.05.2020

Project Manager: **Joseph Hernandez LT Environmental, Inc.** 4600 W. 60th Avenue Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): 676713 RDX 17-25 Project Address: NM

Joseph Hernandez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 676713. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 676713 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

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

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Environment Testing Xenco

Sample Cross Reference 676713

LT Environmental, Inc., Arvada, CO

RDX 17-25

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH02 @3.5-4'	S	10.29.2020 12:10	3.5 - 4 ft	676713-001

Environment Testing Xenco

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: RDX 17-25

 Project ID:
 034820010

 Work Order Number(s):
 676713

 Report Date:
 11.05.2020

 Date Received:
 11.02.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 676713

LT Environmental, Inc., Arvada, CO RDX 17-25

Sample Id: CH02 @3.5-4' Lab Sample Id: 676713-001		Matrix: Date Coll	Soil ected: 10.29	0.2020 12:10		Date Received:11.0 Sample Depth: 3.5		50
Analytical Method: Inorganic Anion	s by EPA 300					Prep Method: E30	0P	
Tech: MAB								
Analyst: MAB		Date Prep	: 11.03	.2020 13:00		% Moisture: Basis: We	Weight	
Seq Number: 3141306							weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	212	10.0		mg/kg	11.03.2020 16:10		1
Analytical Method:TPH by SW8015Tech:MABAnalyst:CACSeq Number:3141297	5 Mod	Date Prep	: 11.03	5.2020 13:27		Prep Method: SW % Moisture: Basis: We	8015P t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	60.4	50.2		mg/kg	11.03.2020 18:43		1
Diesel Range Organics (DRO)	C10C28DRO	298	50.2		mg/kg	11.03.2020 18:43		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2		mg/kg	11.03.2020 18:43	U	1
Total TPH	PHC635	358	50.2		mg/kg	11.03.2020 18:43		1
Surrogate	Ca	as Number %	Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	11	1-85-3	126	%	70-135	11.03.2020 18:43	;	
o-Terphenyl	94	-15-1	127	%	70-135	11.03.2020 18:43		

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Environment Testing Xenco

Certificate of Analytical Results 676713

LT Environmental, Inc., Arvada, CO RDX 17-25

Sample Id: CH02 @3.5-4' Lab Sample Id: 676713-001		Matrix: Date Collecte	Soil d: 10.29.2020 12:10		Date Received:11.02.2020 15:50 Sample Depth: 3.5 - 4 ft
Analytical Method: BTEX by EPA 80 Tech: MAB	21B				Prep Method: SW5035A
Tech: MAB Analyst: MAB Seq Number: 3141311		Date Prep:	11.03.2020 09:30		% Moisture: Basis: Wet Weight
Parameter	Cas Number	Result RI	. I	Units	Analysis Date Flag Dil

Parameter	Cas Numbe	r Kesuit	KL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	11.03.2020 19:44	U	1
Toluene	108-88-3	0.0244	0.00202		mg/kg	11.03.2020 19:44		1
Ethylbenzene	100-41-4	0.0502	0.00202		mg/kg	11.03.2020 19:44		1
m,p-Xylenes	179601-23-1	0.437	0.00403		mg/kg	11.03.2020 19:44		1
o-Xylene	95-47-6	0.135	0.00202		mg/kg	11.03.2020 19:44		1
Total Xylenes	1330-20-7	0.572	0.00202		mg/kg	11.03.2020 19:44		1
Total BTEX		0.647	0.00202		mg/kg	11.03.2020 19:44		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	110	%	70-130	11.03.2020 19:44		
1,4-Difluorobenzene		540-36-3	88	%	70-130	11.03.2020 19:44		

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Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

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

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

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QC Summary 676713

LT Environmental, Inc.

RDX 17-25

Analytical Method: Seq Number:	Inorganic A 3141306	nions by	y EPA 300		Matrix:	Solid			P	rep Metho Date Pro		0P 03.2020	
MB Sample Id:	7714455-1-E	BLK				7714455-	1-BKS		LCS		-	4455-1-BSD	
Parameter	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	250	260	104	259	104	90-110	0	20	mg/kg	11.03.2020 15:10	
emenae		(1010	200	200	10.	207	101	<i>y</i> 0 110	0	20			
Analytical Method:	Inorganic A	nions b	y EPA 300						Pi	rep Metho	od: E30	0P	
Seq Number:	3141306				Matrix:	Soil				Date Pro	ep: 11.0	3.2020	
Parent Sample Id:	676707-001			MS Sar	nple Id:	676707-0	01 S		MS	D Sample	e Id: 676	707-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		606	200	796	95	806	100	90-110	1	20	mg/kg	11.03.2020 15:26	
Analytical Method:	Inorganic A	nions b [,]	v EPA 300						Pi	rep Metho	od: E30	0P	
Seq Number:	3141306		,		Matrix:	Soil				Date Pr		3.2020	
Parent Sample Id:	676720-001			MS Sar	nple Id:	676720-0	01 S		MS	D Sample	e Id: 676	720-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		148	200	361	107	363	108	90-110	1	20	mg/kg	11.03.2020 16:43	
									5		1 0111	001 5D	
Analytical Method: Seq Number:	TPH by SW 3141297	8015 M	od		Matrix:	Solid			Pi	rep Metho Date Pro		8015P)3.2020	
MB Sample Id:	7714426-1-E	BLK				7714426-1	1-BKS		LCS		-	4426-1-BSD	
-		MB	Spike	LCS	LCS	LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	
Parameter		Result	Amount	Result	%Rec	Result	%Rec			Limit		Date	Flag
Gasoline Range Hydrocarb		< 50.0	1000	1180	118	1130	113	70-135	4	35	mg/kg	11.03.2020 15:40	
Diesel Range Organics	(DRO)	<50.0	1000	1250	125	1200	120	70-135	4	35	mg/kg	11.03.2020 15:40	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		122		1	30		126	5	70	-135	%	11.03.2020 15:40	
o-Terphenyl		117		1	20		118	:	70	-135	%	11.03.2020 15:40	
Analytical Method:	TPH by SW	'8015 M	od						Pi	rep Metho	od SW	8015P	
Seq Number:	3141297				Matrix:	Solid			11	Date Pro		03.2020	
-						7714426-	1-BLK				_		
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)			<50.0							mg/kg	11.03.2020 15:20	
											68		

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$

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

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QC Summary 676713

LT Environmental, Inc.

RDX 17-25

			Pr	ep Metho	d: SW	8015P	
Aatrix: Soil				Date Pre	p: 11.0	3.2020	
ple Id: 67670	7-001 S		MSI	D Sample	Id: 676	707-001 SD	
		Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
112 10	050 105	70-135	7	35	mg/kg	11.03.2020 16:41	
114 11	140 114	70-135	1	35	mg/kg	11.03.2020 16:41	
S MS lec Flag	MSD %Rec			mits	Units	Analysis Date	
9	133		70-	-135	%	11.03.2020 16:41	
3	105		70-	-135	%	11.03.2020 16:41	
F S S S S S S S S S S S S S S S S S S S	ble Id: 67670 MS MS %Rec Res 112 10 114 1 Sec Flag 0 0	ble Id: 676707-001 S MS MSD %Rec Result 112 1050 114 1140 5 MS MSD %Rec Flag %Rec 0 133	ble Id: 676707-001 S MS MSD MSD Limits %Rec Result %Rec 112 1050 105 70-135 114 1140 114 70-135 6 MS MSD MSD 90 133	Matrix: Soil ole Id: 676707-001 S MSI MS MSD MSD Limits %RPD %Rec Result %Rec %Rec 112 1050 105 70-135 7 114 1140 114 70-135 1 Gene Flag %Rec Flag Li 0 133 70	Itatrix: Soil Soil Date Pre Itatrix: Soil MSD Sample MS MSD MSD Limits %RPD RPD %Rec Result %Rec Limits Limit 112 1050 105 70-135 7 35 114 1140 114 70-135 1 35 See Flag %Rec Flag 0 133 70-135	Itarix: Soil Date Prep: 11.0 Itarix: Soil Date Prep: 11.0 Itarix: Soil MSD Sample Id: 676 MS MSD MSD Limits %RPD RPD Units %Rec Result %Rec Limit 112 1050 105 70-135 7 35 mg/kg 114 1140 114 70-135 1 35 mg/kg See Flag %Rec Flag %Rec Flag 0 133 70-135 % %	Matrix: Soil Date Prep: 11.03.2020 ble Id: 676707-001 S MSD Sample Id: 676707-001 SD MS MSD MSD Limits %RPD RPD Units Analysis %Rec 112 1050 105 70-135 7 35 mg/kg 11.03.2020 16:41 114 1140 114 70-135 1 35 mg/kg 11.03.2020 16:41 %ee Flag %Rec Flag Limits Units Analysis 0 133 70-135 % 11.03.2020 16:41

Analytical Method: Seq Number:	BTEX by EPA 802 3141311	lB		Matrix:	Solid			P	rep Meth Date Pr	04.	5035A)3.2020	
MB Sample Id:	7714461-1-BLK		LCS Sar	nple Id:	7714461-2	I-BKS		LCS	D Sample	e Id: 771	4461-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.101	101	0.106	106	70-130	5	35	mg/kg	11.03.2020 09:56	
Toluene	< 0.00200	0.100	0.0955	96	0.101	101	70-130	6	35	mg/kg	11.03.2020 09:56	
Ethylbenzene	< 0.00200	0.100	0.0976	98	0.102	102	71-129	4	35	mg/kg	11.03.2020 09:56	
m,p-Xylenes	< 0.00400	0.200	0.197	99	0.205	103	70-135	4	35	mg/kg	11.03.2020 09:56	
o-Xylene	< 0.00200	0.100	0.0967	97	0.102	102	71-133	5	35	mg/kg	11.03.2020 09:56	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	104		ç	99		104		70	-130	%	11.03.2020 09:56	
4-Bromofluorobenzene	110		1	03		110		70	-130	%	11.03.2020 09:56	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3141311 676514-007	1B		Matrix: nple Id:	Soil 676514-00	07 S			rep Metho Date Pr D Sample	ep: 11.0	5035A)3.2020 514-007 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.101	0.107	106	0.0886	89	70-130	19	35	mg/kg	11.03.2020 10:41	
Toluene	< 0.00201	0.101	0.0986	98	0.0879	88	70-130	11	35	mg/kg	11.03.2020 10:41	
Ethylbenzene	< 0.00201	0.101	0.0998	99	0.0910	91	71-129	9	35	mg/kg	11.03.2020 10:41	
m,p-Xylenes	< 0.00402	0.201	0.202	100	0.186	93	70-135	8	35	mg/kg	11.03.2020 10:41	
o-Xylene	< 0.00201	0.101	0.102	101	0.0943	94	71-133	8	35	mg/kg	11.03.2020 10:41	
Surrogate				1S Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	00		101		70	-130	%	11.03.2020 10:41	
4-Bromofluorobenzene			1	07		117		70	-130	%	11.03.2020 10:41	

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

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

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

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Released to Imaging: 8/22/2023 8:25:259(AMI

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				2	ho of	Chain of Custody			とけって
	HORATORIES	£.	Houston, TX (28	81) 240-4200 Dal	as,TX (214) 902-	Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334			
			bs,NM (575-392-7550)) Phoenix,AZ (480	-355-0900) Atlan	тимания, и (эсегонения) сс газа, и (эторосение сисков, и (оторенессов) Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	3-620-2000)	www.xenco.com	Page of
Project Manager:	Joseph Hernandez		Bill to:	Bill to: (if different)	Lynda Laumbach	1		Work Order Comments	
Company Name:	LT Environmental, Inc	al, Inc.	Compa	15	WPX Energy		Program: UST/PST		Is FC C perfund
Address:	3300 North A Street	eet	Address:		5315 Buena Vista Dr	a Dr	State of Project:		
City, State ZIP:	Midland, TX 79705	05	City, S	City, State ZIP: 0	Carlsbad, NM 88220	220	Reporting:Leve	Reporting:Level II Bvel III T/UST	
Phone:	281-702-2329		Email: jherna	Email: hernandez@ltenv.com & abyers@ltenv.com	om & abyers(oltenv.com	Deliverables: EDD		Other:
Project Name:	RDX 17-25		Turn Around	und		ANALYSIS REQUEST	JEST		Work Order Notes
	034820010		Routine	Ø					
	Liner		Rush:						
Sampler's Name:	Anna Byers		Due Date:						
SAMPLE RECEIPT		Temp Blank: Yes No	Wet Ice: Yes	No					
Temperature (°C):	1.21.0	(Thermometer ID						
Received Intact:	*		7		1B)				
Sample Custody Seals:	: Yes No	N/A Tota	Total Containers:		PA 80			Т	TAT starts the day received by the lab, if received by 4:30pm
Sample Identification	(Matrix Date Sampled	Time Depth Sampled	Ptt Numb	TPH (E BTEX (Chlorid				Sample Comments
CH102@ 3.5	5-4'	del roldi S	120 3.5	5-4' 1	X X X				
	A								
				/					
					1				
					6				
Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	and Metal(s) to be		8RCRA 13PPM Texas 11 , TCLP / SPLP 6010: 8RCRA		Sb As Ba Be Sb As Ba Be (B Cd Ca Cr Co Cu Fe 3d Cr Co Cu Pb Mn Mo	Pb Mg Mn Mo Ni K Ni Se Ag TI U	Se Ag SiO2	Na Sr TI Sn U V Zn 1631/245.1/7470 /7471 : Hg
Notice: Signature of this doc of service. Xenco will be lia of Xenco. A minimum charg	cument and relinquish ble only for the cost of le of \$75.00 will be app	iment of samples consti f samples and shall not plied to each project and	tutes a valid purchase or assume any responsibili a charge of \$5 for each	rder from client con ity for any losses o sample submitted	npany to Xenco, its rexpenses incurre to Xenco, but not a	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	standard terms and ircumstances beyond iless previously negot	conditions the control iated.	
Relinquished by: (Signature)	Signature)	Received	Received by: (Signature)		Date/Time	Relinquished by: (Signature)	ure) R	Received by: (Signature)	Date/Time
Um By		te		02/1/1	0 15:50	2			
3 0		4				4			
5				-		5			Revised Date 051418 Rev. 2018.1

Final 1.000

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature Range: 0 - 6 degC
Date/ Time Received: 11.02.2020 03.50.00 PM	Air and Metal samples Acceptable Range: Ambient
Work Order #: 676713	Temperature Measuring device used: T_NM_007
Sample Recei	pt Checklist Comments
#1 *Temperature of cooler(s)?	1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6*Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	Νο
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes Samples received in bulk containers.
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	Νο
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by: Cloe Clifton

Date: 11.03.2020

Checklist reviewed by: Jession Whamer

Jessica Kramer

Date: 11.03.2020

🔅 eurofins **Environment Testing** Xenco

Certificate of Analysis Summary 676715

LT Environmental, Inc., Arvada, CO

Project Name: RDX 17-25

Date Received in Lab: Mon 11.02.2020 15:50 Project Id: 034820010 Report Date: 11.05.2020 08:37 Joseph Hernandez **Contact:** NM Project Manager: Jessica Kramer **Project Location:**

	1		1	1	1	
	Lab Id:	676715-001				
Analysis Requested	Field Id:	CH02 @ 5.5-6'				
Analysis Requesieu	Depth:	5.5-6 ft				
	Matrix:	SOIL				
	Sampled:	10.29.2020 12:30				
BTEX by EPA 8021B	Extracted:	11.03.2020 09:30				
	Analyzed:	11.03.2020 20:06				
	Units/RL:	mg/kg RL				
Benzene		<0.00200 0.00200				
Toluene		<0.00200 0.00200				
Ethylbenzene		<0.00200 0.00200				
m,p-Xylenes		<0.00399 0.00399				
o-Xylene		<0.00200 0.00200				
Total Xylenes		<0.00200 0.00200				
Total BTEX		<0.00200 0.00200				
Inorganic Anions by EPA 300	Extracted:	11.03.2020 13:00				
	Analyzed:	11.03.2020 16:16				
	Units/RL:	mg/kg RL				
Chloride		148 49.9				
TPH by SW8015 Mod	Extracted:	11.03.2020 13:27				
	Analyzed:	11.03.2020 19:03				
	Units/RL:	mg/kg RL				
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2				
Diesel Range Organics (DRO)		99.0 50.2				

BRL - Below Reporting Limit

Total TPH

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

Jession Vramer

Motor Oil Range Hydrocarbons (MRO)

Page 1 of 12

50.2

50.2

< 50.2

eurofins Environment Testing Xenco

Analytical Report 676715

for

LT Environmental, Inc.

Project Manager: Joseph Hernandez

RDX 17-25

034820010

11.05.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins Environment Testing

11.05.2020

Project Manager: **Joseph Hernandez LT Environmental, Inc.** 4600 W. 60th Avenue Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): 676715 RDX 17-25 Project Address: NM

Joseph Hernandez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 676715. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 676715 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

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

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Environment Testing Xenco

Sample Cross Reference 676715

LT Environmental, Inc., Arvada, CO

RDX 17-25

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH02 @ 5.5-6'	S	10.29.2020 12:30	5.5 - 6 ft	676715-001

Environment Testing Xenco

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: RDX 17-25

 Project ID:
 034820010

 Work Order Number(s):
 676715

 Report Date:
 11.05.2020

 Date Received:
 11.02.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

eurofins Environment Testing Xenco

Certificate of Analytical Results 676715

LT Environmental, Inc., Arvada, CO RDX 17-25

Sample Id: CH02 @ 5.5-6' Lab Sample Id: 676715-001		Matrix: Date Coll	Soil lected: 10.29	.2020 12:30		Date Received:11.0 Sample Depth: 5.5		50
Analytical Method: Inorganic Anion	ns by EPA 300					Prep Method: E30	0P	
Tech: MAB								
Analyst: MAB		Date Prep	o: 11.03	.2020 13:00		% Moisture: Basis: Wet	Waight	
Seq Number: 3141306						Dasis. Wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	148	49.9		mg/kg	11.03.2020 16:16		5
Analytical Method: TPH by SW801 Tech: MAB Analyst: CAC Seq Number: 3141297	5 Mod	Date Prep	p: 11.03	.2020 13:27		Prep Method: SW3 % Moisture: Basis: Wet	8015P Weight	
Tech: MAB Analyst: CAC	5 Mod Cas Number	Date Prep Result	p: 11.03 RL	.2020 13:27	Units	% Moisture:		Dil
Tech:MABAnalyst:CACSeq Number:3141297		I		.2020 13:27	Units mg/kg	% Moisture: Basis: Wet	Weight	Dil
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter	Cas Number	Result	RL	.2020 13:27		% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <50.2	RL 50.2	.2020 13:27	mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 19:03	Weight Flag	1
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <50.2 99.0	RL 50.2 50.2	.2020 13:27	mg/kg mg/kg	% Moisture: Basis: Wet <u>Analysis Date</u> 11.03.2020 19:03 11.03.2020 19:03	Weight Flag U	1 1
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHC62835 PHC635	Result <50.2	RL 50.2 50.2 50.2	.2020 13:27 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 19:03 11.03.2020 19:03 11.03.2020 19:03 11.03.2020 19:03	Weight Flag U	1 1 1
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	Result <50.2	RL 50.2 50.2 50.2 50.2 50.2		mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 19:03 11.03.2020 19:03 11.03.2020 19:03 11.03.2020 19:03	Weight Flag U U Flag	1 1 1

Environment Testing Xenco

Certificate of Analytical Results 676715

LT Environmental, Inc., Arvada, CO RDX 17-25

Sample Id: CH02 @ 5.5-6' Lab Sample Id: 676715-001		Matrix: Date Collected	Soil d: 10.29.2020 12:30		Date Receive Sample Depth			50
Analytical Method: BTEX by EPA 80	21B				Prep Method:	SW5	035A	
Tech: MAB Analyst: MAB		Date Prep:	11.03.2020 09:30		% Moisture: Basis:	Wet '	Weight	
Seq Number: 3141311							8	
Parameter	Cas Number	Result RL		Units	Analysis D	ate	Flag	Dil

Parameter	Cas Numbe	r Kesult	KL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	11.03.2020 20:06	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	11.03.2020 20:06	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	11.03.2020 20:06	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	11.03.2020 20:06	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	11.03.2020 20:06	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	11.03.2020 20:06	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	11.03.2020 20:06	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	76	%	70-130	11.03.2020 20:06		
4-Bromofluorobenzene		460-00-4	98	%	70-130	11.03.2020 20:06		

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Environment Testing

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Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected.			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample Det	ection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qua	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labor	ratory Control Sample Duplicate
MD/SD Method Duplicate/Sampl	e Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered f	for this compound.			

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

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Environment Testing

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QC Summary 676715

LT Environmental, Inc.

RDX 17-25

Analytical Method: Seq Number:	Inorganic A 3141306	nions by	y EPA 300		Matrix:	Solid			P	rep Metho Date Pro		0P 03.2020	
MB Sample Id:	7714455-1-E	BLK				7714455-	1-BKS		LCS		-	4455-1-BSD	
Parameter	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	250	260	104	259	104	90-110	0	20	mg/kg	11.03.2020 15:10	
emenae		(1010	200	200	101	207	101	<i>y</i> 0 110	0	20			
Analytical Method:	Inorganic A	nions b	y EPA 300						Pi	rep Metho	od: E30	0P	
Seq Number:	3141306				Matrix:	Soil				Date Pro	ep: 11.0	3.2020	
Parent Sample Id:	676707-001			MS Sar	nple Id:	676707-0	01 S		MS	D Sample	e Id: 676	707-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		606	200	796	95	806	100	90-110	1	20	mg/kg	11.03.2020 15:26	
Analytical Method:	Inorganic A	nions b [,]	v EPA 300						Pi	rep Metho	od: E30	0P	
Seq Number:	3141306		,		Matrix:	Soil				Date Pr		3.2020	
Parent Sample Id:	676720-001			MS Sar	nple Id:	676720-0	01 S		MS	D Sample	e Id: 676	720-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		148	200	361	107	363	108	90-110	1	20	mg/kg	11.03.2020 16:43	
									5		1 0111	001 5D	
Analytical Method: Seq Number:	TPH by SW 3141297	8015 M	od		Matrix:	Solid			Pi	rep Metho Date Pro		8015P)3.2020	
MB Sample Id:	7714426-1-E	BLK				7714426-1	1-BKS		LCS		-	4426-1-BSD	
-		MB	Spike	LCS	LCS	LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	
Parameter		Result	Amount	Result	%Rec	Result	%Rec			Limit		Date	Flag
Gasoline Range Hydrocarb		< 50.0	1000	1180	118	1130	113	70-135	4	35	mg/kg	11.03.2020 15:40	
Diesel Range Organics	(DRO)	<50.0	1000	1250	125	1200	120	70-135	4	35	mg/kg	11.03.2020 15:40	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		122		1	30		126	5	70	-135	%	11.03.2020 15:40	
o-Terphenyl		117		1	20		118	:	70	-135	%	11.03.2020 15:40	
Analytical Method:	TPH by SW	'8015 M	od						Pi	rep Metho	od SW	8015P	
Seq Number:	3141297				Matrix:	Solid			11	Date Pro		03.2020	
-						7714426-	1-BLK				_		
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)			<50.0							mg/kg	11.03.2020 15:20	
											68		

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$

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

.

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Environment Testing

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QC Summary 676715

LT Environmental, Inc.

RDX 17-25

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P													
Seq Number:	1				Matrix:	Soil				Date Pr	ep: 11.0	3.2020	
Parent Sample Id: 676707-001				MS Sample Id: 676707-00		676707-001 S			MSD Sample Id: 676707-001 SD				
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<50.3	1010	1130	112	1050	105	70-135	7	35	mg/kg	11.03.2020 16:41	
Diesel Range Organics ((DRO)	<50.3	1010	1150	114	1140	114	70-135	1	35	mg/kg	11.03.2020 16:41	
Surrogate				M %1	IS Rec	MS Flag	MSD %Re			mits	Units	Analysis Date	
1-Chlorooctane				12	29		133		70	-135	%	11.03.2020 16:41	
o-Terphenyl				12	23		105		70	-135	%	11.03.2020 16:41	

Analytical Method: Seq Number:	BTEX by EPA 8021B 3141311 Matrix: 7714461-1-BLK LCS Sample Id:				ix: Solid Date Prep:				ep: 11.0	5035A)3.2020		
MB Sample Id: Parameter	7714461-1-BLK MB Result	Spike Amount	LCS San LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	4461-1-BSD Analysis Date	Flag
Benzene	< 0.00200	0.100	0.101	101	0.106	106	70-130	5	35	mg/kg	11.03.2020 09:56	
Toluene	< 0.00200	0.100	0.0955	96	0.101	101	70-130	6	35	mg/kg	11.03.2020 09:56	
Ethylbenzene	< 0.00200	0.100	0.0976	98	0.102	102	71-129	4	35	mg/kg	11.03.2020 09:56	
m,p-Xylenes	< 0.00400	0.200	0.197	99	0.205	103	70-135	4	35	mg/kg	11.03.2020 09:56	
o-Xylene	< 0.00200	0.100	0.0967	97	0.102	102	71-133	5	35	mg/kg	11.03.2020 09:56	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	104		ç	99		104		70	-130	%	11.03.2020 09:56	
4-Bromofluorobenzene	110		1	03		110		70	-130	%	11.03.2020 09:56	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3141311 676514-007	1B		Matrix: nple Id:	Soil 676514-00	07 S			rep Metho Date Pr D Sample	ep: 11.0	5035A)3.2020 514-007 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.101	0.107	106	0.0886	89	70-130	19	35	mg/kg	11.03.2020 10:41	
Toluene	< 0.00201	0.101	0.0986	98	0.0879	88	70-130	11	35	mg/kg	11.03.2020 10:41	
Ethylbenzene	< 0.00201	0.101	0.0998	99	0.0910	91	71-129	9	35	mg/kg	11.03.2020 10:41	
m,p-Xylenes	< 0.00402	0.201	0.202	100	0.186	93	70-135	8	35	mg/kg	11.03.2020 10:41	
o-Xylene	< 0.00201	0.101	0.102	101	0.0943	94	71-133	8	35	mg/kg	11.03.2020 10:41	
Surrogate				1S Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	00		101		70	-130	%	11.03.2020 10:41	
4-Bromofluorobenzene			1	07		117		70	-130	%	11.03.2020 10:41	

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

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

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

.

Released to Imaging: 8/22/2023 8:25:259(AMI

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Final 1.000

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature Range: 0 - 6 degC							
Date/ Time Received: 11.02.2020 03.50.00 PM	Air and Metal samples Acceptable Range: Ambient							
Work Order #: 676715	Temperature Measuring de	evice used : T_NM_007						
Sample Recei	ot Checklist	Comments						
#1 *Temperature of cooler(s)?	1							
#2 *Shipping container in good condition?	Yes							
#3 *Samples received on ice?	Yes							
#4 *Custody Seals intact on shipping container/ cooler?	Yes							
#5 Custody Seals intact on sample bottles?	Yes							
#6*Custody Seals Signed and dated?	Yes							
#7 *Chain of Custody present?	Yes							
#8 Any missing/extra samples?	No							
#9 Chain of Custody signed when relinquished/ received?	Yes							
#10 Chain of Custody agrees with sample labels/matrix?	Yes							
#11 Container label(s) legible and intact?	Yes							
#12 Samples in proper container/ bottle?	Yes	Samples received in bulk containers.						
#13 Samples properly preserved?	Yes							
#14 Sample container(s) intact?	Yes							
#15 Sufficient sample amount for indicated test(s)?	Yes							
#16 All samples received within hold time?	Yes							
#17 Subcontract of sample(s)?	No							
#18 Water VOC samples have zero headspace?	N/A							

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: 11.03.2020

Checklist reviewed by: Jessica Kramer

Date: 11.03.2020

🔅 eurofins **Environment Testing** Xenco

Certificate of Analysis Summary 676719

LT Environmental, Inc., Arvada, CO

Project Name: RDX 17-25

Date Received in Lab: Mon 11.02.2020 15:50 Project Id: 034820010 Joseph Hernandez **Contact:** Report Date: 11.05.2020 08:10 NM Project Manager: Jessica Kramer **Project Location:** Lah Id. 676710 001

	Lab Id:	676719-001			
Analysis Requested	Field Id:	CH02 @ 8-8.5'			
Thatysis Requested	Depth:	8-8.5 ft			
	Matrix:	SOIL			
	Sampled:	10.29.2020 13:15			
BTEX by EPA 8021B	Extracted:	11.03.2020 09:30			
	Analyzed:	11.03.2020 21:14			
	Units/RL:	mg/kg RL			
Benzene		<0.00202 0.00202			
Toluene		<0.00202 0.00202			
Ethylbenzene		<0.00202 0.00202			
m,p-Xylenes		<0.00403 0.00403			
o-Xylene		<0.00202 0.00202			
Total Xylenes		<0.00202 0.00202			
Total BTEX		<0.00202 0.00202			
Inorganic Anions by EPA 300	Extracted:	11.03.2020 13:00			
	Analyzed:	11.03.2020 16:32			
	Units/RL:	mg/kg RL			
Chloride		157 10.0			
TPH by SW8015 Mod	Extracted:	11.03.2020 13:27			
	Analyzed:	11.03.2020 20:04			
	Units/RL:	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8			
Diesel Range Organics (DRO)		<49.8 49.8			
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8			
Total TPH		<49.8 49.8			

BRL - Below Reporting Limit

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

Jession VRAMER

Page 1 of 12

eurofins Environment Testing Xenco

Analytical Report 676719

for

LT Environmental, Inc.

Project Manager: Joseph Hernandez

RDX 17-25

034820010

11.05.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins Environment Testing

11.05.2020

Project Manager: **Joseph Hernandez LT Environmental, Inc.** 4600 W. 60th Avenue Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): 676719 RDX 17-25 Project Address: NM

Joseph Hernandez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 676719. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 676719 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

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

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Environment Testing Xenco

Sample Cross Reference 676719

LT Environmental, Inc., Arvada, CO

RDX 17-25

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH02 @ 8-8.5'	S	10.29.2020 13:15	8 - 8.5 ft	676719-001

Environment Testing Xenco

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: RDX 17-25

 Project ID:
 034820010

 Work Order Number(s):
 676719

 Report Date:
 11.05.2020

 Date Received:
 11.02.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

eurofins Environment Testing Xenco

Certificate of Analytical Results 676719

LT Environmental, Inc., Arvada, CO RDX 17-25

Sample Id: Lab Sample Id:	CH02 @ 8-8.5' 676719-001		Matrix: Date Co	Soil Illected: 10.29	.2020 13:15		Date Received:11.0 Sample Depth: 8 - 8		:50
Analytical Meth	hod: Inorganic Anio	ons by EPA 300					Prep Method: E30	0P	
Tech:	MAB								
Analyst:	MAB		Date Pre	ep: 11.03.	.2020 13:00		% Moisture: Basis: Wet	Weight	
Seq Number:	3141306						Dasis. wet	Weight	
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	157	10.0		mg/kg	11.03.2020 16:32		1
Analytical Meth	hod: TPH by SW80	15 Mod					Prep Method: SW8	8015P	
Tech: I Analyst: 0	hod: TPH by SW80 MAB CAC 3141297	15 Mod	Date Pre	ep: 11.03.	.2020 13:27		% Moisture:	8015P Weight	
Tech: Analyst:	MAB CAC	15 Mod Cas Number	Date Pre	ep: 11.03. RL	.2020 13:27	Units	% Moisture:		Dil
Tech: I Analyst: G Seq Number: S Parameter	MAB CAC				.2020 13:27		% Moisture: Basis: Wet	Weight	Dil 1
Tech: I Analyst: G Seq Number: C Parameter Gasoline Range Hy	MAB CAC 3141297 ydrocarbons (GRO)	Cas Number	Result	RL	.2020 13:27	Units	% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: I Analyst: G Seq Number: S Parameter	MAB CAC 3141297 ydrocarbons (GRO) anics (DRO)	Cas Number PHC610	Result	RL 49.8	.2020 13:27	Units mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 20:04	Weight Flag U	1
Tech: I Analyst: G Seq Number: C Parameter Gasoline Range Hy Diesel Range Orga	MAB CAC 3141297 ydrocarbons (GRO) anics (DRO)	Cas Number PHC610 C10C28DRO	Result <49.8 <49.8	RL 49.8 49.8	.2020 13:27	Units mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 20:04 11.03.2020 20:04	Weight Flag U U	1 1
Tech: I Analyst: G Seq Number: A Parameter Gasoline Range Hy Diesel Range Orga Motor Oil Range Hyd	MAB CAC 3141297 ydrocarbons (GRO) anics (DRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8	RL 49.8 49.8 49.8	.2020 13:27 Units	Units mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 20:04 11.03.2020 20:04 11.03.2020 20:04 11.03.2020 20:04	Weight Flag U U U	1 1 1
Tech: I Analyst: G Seq Number: A Parameter Gasoline Range Hy Diesel Range Orga Motor Oil Range Hyd Total TPH	MAB CAC 3141297 ydrocarbons (GRO) anics (DRO) drocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 C	Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8	RL 49.8 49.8 49.8 49.8 49.8		Units mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 20:04 11.03.2020 20:04 11.03.2020 20:04 11.03.2020 20:04 11.03.2020 20:04	Weight Flag U U U U U Flag	1 1 1

Environment Testing Xenco

Certificate of Analytical Results 676719

LT Environmental, Inc., Arvada, CO RDX 17-25

Sample Id: CH02 @ 8-8.5' Lab Sample Id: 676719-001		Matrix: Date Collecte	Soil d: 10.29.2020 13:15		ived:11.02.2020 15 epth: 8 - 8.5 ft	:50
Analytical Method: BTEX by EP	PA 8021B			Prep Meth	od: SW5035A	
Tech: MAB Analyst: MAB Seq Number: 3141311		Date Prep:	11.03.2020 09:30	% Moistur Basis:	e: Wet Weight	
Parameter	Cas Number	Result RI		Units Analys	is Date Flag	Dil

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	2 0.00202		mg/kg	11.03.2020 21:14	U	1
Toluene	108-88-3	< 0.00202	2 0.00202		mg/kg	11.03.2020 21:14	U	1
Ethylbenzene	100-41-4	< 0.00202	2 0.00202		mg/kg	11.03.2020 21:14	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	11.03.2020 21:14	U	1
o-Xylene	95-47-6	< 0.00202	2 0.00202		mg/kg	11.03.2020 21:14	U	1
Total Xylenes	1330-20-7	< 0.00202	2 0.00202		mg/kg	11.03.2020 21:14	U	1
Total BTEX		< 0.00202	2 0.00202		mg/kg	11.03.2020 21:14	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	115	%	70-130	11.03.2020 21:14		
1,4-Difluorobenzene		540-36-3	103	%	70-130	11.03.2020 21:14		

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Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected.			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample Det	ection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qua	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labor	ratory Control Sample Duplicate
MD/SD Method Duplicate/Sampl	e Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered f	for this compound.			

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

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QC Summary 676719

LT Environmental, Inc.

RDX 17-25

Analytical Method: Seq Number:	Inorganic A 3141306	nions by	y EPA 300		Matrix:	Solid			P	rep Metho Date Pro		0P 03.2020	
MB Sample Id:	7714455-1-E	BLK				7714455-	1-BKS		LCS		-	4455-1-BSD	
Parameter	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	250	260	104	259	104	90-110	0	20	mg/kg	11.03.2020 15:10	
emenae		(1010	200	200	101	207	101	<i>y</i> 0 110	0	20			
Analytical Method:	Inorganic A	nions b	y EPA 300						Pi	rep Metho	od: E30	0P	
Seq Number:	3141306				Matrix:	Soil				Date Pro	ep: 11.0	3.2020	
Parent Sample Id:	676707-001			MS Sar	nple Id:	676707-0	01 S		MS	D Sample	e Id: 676	707-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		606	200	796	95	806	100	90-110	1	20	mg/kg	11.03.2020 15:26	
Analytical Method:	Inorganic A	nions b [,]	v EPA 300						Pi	rep Metho	od: E30	0P	
Seq Number:	3141306		,		Matrix:	Soil				Date Pr		3.2020	
Parent Sample Id:	676720-001			MS Sar	nple Id:	676720-0	01 S		MS	D Sample	e Id: 676	720-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		148	200	361	107	363	108	90-110	1	20	mg/kg	11.03.2020 16:43	
									5		1 0111	001 5D	
Analytical Method: Seq Number:	TPH by SW 3141297	8015 M	od		Matrix:	Solid			Pi	rep Metho Date Pro		8015P)3.2020	
MB Sample Id:	7714426-1-E	BLK				7714426-1	1-BKS		LCS		-	4426-1-BSD	
-		MB	Spike	LCS	LCS	LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	
Parameter		Result	Amount	Result	%Rec	Result	%Rec			Limit		Date	Flag
Gasoline Range Hydrocarb		< 50.0	1000	1180	118	1130	113	70-135	4	35	mg/kg	11.03.2020 15:40	
Diesel Range Organics	(DRO)	<50.0	1000	1250	125	1200	120	70-135	4	35	mg/kg	11.03.2020 15:40	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		122		1	30		126	5	70	-135	%	11.03.2020 15:40	
o-Terphenyl		117		1	20		118	:	70	-135	%	11.03.2020 15:40	
Analytical Method:	TPH by SW	'8015 M	od						Pi	rep Metho	od SW	8015P	
Seq Number:	3141297		~ .		Matrix:	Solid			11	Date Pro		03.2020	
-						7714426-	1-BLK				_		
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)			<50.0							mg/kg	11.03.2020 15:20	
											68		

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$

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

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QC Summary 676719

LT Environmental, Inc.

RDX 17-25

Flag

Analytical Method:	BTEX by EPA 8021	lB						P	rep Meth	od: SW	5035A	
Seq Number:	3141311			Matrix:	Solid				Date Pr	ep: 11.0	3.2020	
MB Sample Id:	7714461-1-BLK		LCS Sar	nple Id:	7714461-	1-BKS		LCS	D Sample	e Id: 771	4461-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.101	101	0.106	106	70-130	5	35	mg/kg	11.03.2020 09:56	
Toluene	< 0.00200	0.100	0.0955	96	0.101	101	70-130	6	35	mg/kg	11.03.2020 09:56	
Ethylbenzene	< 0.00200	0.100	0.0976	98	0.102	102	71-129	4	35	mg/kg	11.03.2020 09:56	
m,p-Xylenes	< 0.00400	0.200	0.197	99	0.205	103	70-135	4	35	mg/kg	11.03.2020 09:56	
o-Xylene	< 0.00200	0.100	0.0967	97	0.102	102	71-133	5	35	mg/kg	11.03.2020 09:56	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	104		ç	99		104		70	-130	%	11.03.2020 09:56	
4-Bromofluorobenzene	110		1	03		110		70	-130	%	11.03.2020 09:56	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3141311 676514-007	1B		Matrix: nple Id:	Soil 676514-00)7 S			rep Metho Date Pr D Sample	ep: 11.0	5035A)3.2020 514-007 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.101	0.107	106	0.0886	89	70-130	19	35	mg/kg	11.03.2020 10:41	
Toluene	< 0.00201	0.101	0.0986	98	0.0879	88	70-130	11	35	mg/kg	11.03.2020 10:41	
Ethylbenzene	< 0.00201	0.101	0.0998	99	0.0910	91	71-129	9	35	mg/kg	11.03.2020 10:41	
m,p-Xylenes	< 0.00402	0.201	0.202	100	0.186	93	70-135	8	35	mg/kg	11.03.2020 10:41	
o-Xylene	< 0.00201	0.101	0.102	101	0.0943	94	71-133	8	35	mg/kg	11.03.2020 10:41	
Surrogate				1S Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	00		101		70	-130	%	11.03.2020 10:41	
4-Bromofluorobenzene			1	07		117		70	-130	%	11.03.2020 10:41	

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

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

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

.

Released to Imaging: 8/22/2023 8:25:259(AMI

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Chain of Custody Work Order Name: T((22) 794-400 EL: Pasi TK (21) 293-2900 Stimulities TK (210) 293-281 Name: T((22) 794-400 EL: Pasi TK (21) 293-2900 Stimulities TK (210) 293-281 Nonce: Teles Witt (25: 27: 27: 44-400 EL: Pasi TK (21) 293-280 Stimulities TK (210) 293-281 Nonce: Teles Witt (25: 27: 27: 44-400 EL: Pasi TK (21) 293-283 Nonce: Teles Witt (25: 27: 27: 44-400 EL: Pasi TK (21) 293-283 Nonce: Teles Witt (25: 27: 27: 44-400 EL: Pasi TK (21) 293-283 Nonce: Teles Witt (25: 27: 44-400 EL: Pasi TK (21) 293-283 Nonce: Teles Witt (25: 27: 44-400 EL: Pasi TK (21) 293-283 Nonce: Teles Witt (25: 27: 44-400 EL: Pasi TK (21) 293-283 Nonce: Teles Witt (25: 27: 44-400 EL: Pasi TK (21) 293-283 Nonce: Teles Witt (25: 27: 44-400 EL: Pasi TK (21) 293-283 Nonce: Teles Witt (25: 28: 71) Pasi TK (21) 293-283 Nonce: Teles Witt (25: 28: 71) Pasi TK (21) 293-283 Nonce: Teles Witt (25: 28: 71) Pasi TK (21) 293-283 Nonce: Teles Witt (25: 28: 71) Pasi TK (21) 293-283 Nonce: Teles Witt (25: 28: 71) Pasi TK (21) 293-283 Nonce: Teles Witt (25: 28: 71) Pasi TK (21) 293-283 Nonce: Teles Witt (25: 28: 71) Pasi TK (21) 293-283 Nonce: Teles Witt (25: 28: 71) Pasi TK (21) 293-283 Nonce	Revised Date 0514 18 Rev. 2018.1	Received by: (Signature)	2 2 4 6	05:51 02/4/1		A Charlen		
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Image: State of Price Chain Of CutCtory Work Order No. Water NY, (28) 204-200 Date: NY, (24) 204-200 Date: NY, (24) 204-200 Date: NY, (24) 204-200 Seeph Hernandez Herback W(075-362-750) Peneruk, XZ, (48) 3455-6400, Alla nucleox KY, (80)794-128 WWX 20100 Sob (with A Street Address: Link (************************************	g SiO2 Na Sr TI Sn U V Zn 1631/245.1/7470 /7471 : Hg	TI U	Cr Co Cu Fe Cu Pb Mn Mo		CRA 13PPM Texas 11 CLP / SPLP 6010: 8RCR		10 200.8 / 6020) and Metal(s) to b	Total 200.7 / 60 Circle Method(s
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Chain of Custody Chain of Custody Work Order No. Henson, TX (21) 20-020 Ban America (21) 50-3334 Miland TX (21) 20-020 Ban America (21) 50-3334 Work Order No. Seph Hemandez Billic (11 different) Company Name: Writz (21) 20-020 Ban America (21) 50-3334 Work Order No. Seph Hemandez Billic (11 different) Company Name: Writz (21) 20-020 Ban America (21) 50-020 Work Order Co. 300 North A Street Address: Stifts Baern Vials Dr. Routine (21) Company Name: Writz (21) 20-020 Ban America (21) Commany Name: Writz (21) 20-020 Ban America (21) Commany Name: Work Order Co. 11.72 Div 17.25 Turn Around Turn Around Miland TX (21) 20-020 Ban Multica (21) Commany Commentar (21)								
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Chain of Custody Work Order No: Housen, TX (281) 24-0200 Dalas, TX (214) 02-0300 Dalas, TX (214) 02-0700 Dalas, TX (214) Dalas, TX (214) 02-0700 Dalas, TX (21								
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Final 1.000

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature Range: 0 - 6 degC
Date/ Time Received: 11.02.2020 03.50.00 PM	Air and Metal samples Acceptable Range: Ambient
Work Order #: 676719	Temperature Measuring device used: T_NM_007
Sample Recei	pt Checklist Comments
#1 *Temperature of cooler(s)?	1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6*Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes Samples received in bulk containers.
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: 11.03.2020

Checklist reviewed by: Jessica WAAMER Jessica Kramer

Date: 11.03.2020

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

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

District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	201020
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Work plan approved. Variance approved for sampling sidewalls and excavation base every 500 square feet. Submit a closure report by 6/30/2023.	3/27/2023

CONDITIONS

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Action 201020

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

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	253808
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
amaxwell	None	8/22/2023

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Action 253808