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

MAR **06** 2014

RECEIVED

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr.

NMOCD ARTERIAL with 19.15.29 NMAC.

Submit I Copy to appropriate District Office in

2RP 2211

Santa Fe, NM 87505 **Release Notification and Corrective Action** nHMP1407325518 **OPERATOR** 246289 X Initial Report Final Report Name of Company RKI EXPLORATION & PRODUCTION Contact **HEATHER BREHM** Telephone No. 405-996-5769 Address 210 PARK AVE, STE 900, OKC, OK 73102 Facility Name ROSS DRAW 12 Facility Type POW API No. 30-015-24793 Surface Owner Mineral Owner LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County 467' **NORTH EDDY** 33 **26S** 30E 660' **EAST** Α Latitude Longitude NATURE OF RELEASE Type of Release **OIL/WATER** Volume of Release Volume Recovered 0 BBLS **15 BBLS** Source of Release TRANSFER PUMP Date and Hour of Occurrence Date and Hour of Discovery Was Immediate Notice Given? If YES, To Whom? 2-25-14 UKN TIME **BLM DISCOVERED** ☐ Yes 🛛 No 🔲 Not Required 3/5/14 @ 9:00 AM M. BALLIET, BLM By Whom? Date and Hour Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. Yes X No N/A If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* WATER TANK RAN OVER, TRANSFER PUMP OVERLOAD Describe Area Affected and Cleanup Action Taken.* SPILL WAS CONTAINED IN DIRT CONTAINMENT; DYKE I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Huarher Solum Signature: Approved by Environmental Specialist: Printed Name: Heather Brehm Regulatory Analyst Approval Date: 3-14-14 Title: Expiration Date: NA E-mail Address: hbrehm@rkixp.com Conditions of Approval: Attached [Kemediation per UCD Kule & Guidelines, & Phone: 405-996-5769 3/06/2014 Date:

like approval by BLM. SUBMIT REMEDIATION

PROPOSAL NO LATER THAN:

* Attach Additional Sheets If Necessary

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	nHMP1407325518
District RP	2RP-2211
Facility ID	
Application ID	

Release Notification

Responsible Party

				•		
Responsible Party: WPX Energy Permian, LLC			LLC	OGRID: 2	OGRID: 246289	
Contact Name: Jim Raley				Contact Te	Contact Telephone: 575-689-7597	
Contact ema	il: Jim.Raley	/@dvn.com		Incident #	(assigned by OCD): nHMP1407325518	
Contact mail	ling address:	5315 Buena Vista	Drive, Carlsbad I	NM		
			Location	of Release So	ource	
Latitude		32.004760	(NAD 83 in dec	Longitude _cimal degrees to 5 decim	-103.879814 nal places)	
Site Name: R	toss Draw U	nit #012		Site Type:	Oil Production Facility	
Date Release	Discovered	: 03/05/2014		API# (if app	licable): 30-015-24793	
Unit Letter	Section	Township	Range	Coun	ty	
A	33	26S	30E	Edd	y	
Surface Owner: State Federal Tribal Private (Name: Nature and Volume of Release Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)						
Crude Oil/ Pr	oduced Water	Volume Release	ed (bbls): 15		Volume Recovered (bbls): 0	
Produced	Water	Volume Release	ed (bbls):		Volume Recovered (bbls):	
Is the concentration of dissolved chloride in the produced water >10,000 mg/l?		hloride in the	☐ Yes ☐ No			
Condensate Volume Released (bbls)			Volume Recovered (bbls)			
☐ Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units)		e units)	Volume/Weight Recovered (provide units)			
Cause of Rel					secondary containment.	
	$bbl\ estimate = \frac{saturated\ soil\ volume\ (ft^3)}{4.21\ (\frac{ft^3}{bbl\ equivalent})}*\ estimated\ porosity\ (\%) + recovered\ fluids\ (bbl)$					

Page 3 of 216

Incident ID	nHMP1407325518
District RP	2RP-2211
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the respon Volume exceeded 25bbls.	nsible party consider this a major release?	
19.15.29.7(A) NMAC?			
☐ Yes ⊠ No			
If VEC was immediate as	otice sives to the OCD? Drawbows? To will	om? When and by what means (phone, email, etc)?	
T	ed via email on 3/6/2014 to Mike Bratcher.	om? when and by what means (phone, eman, etc)?	
	Initial Ro	esponse	
The responsible p	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury	
☐ The source of the rele	ease has been stopped.		
☐ The impacted area ha	s been secured to protect human health and	the environment.	
Released materials ha	we been contained via the use of berms or d	likes, absorbent pads, or other containment devices.	
All free liquids and re	ecoverable materials have been removed and	d managed appropriately.	
If all the actions described	d above have <u>not</u> been undertaken, explain v	why:	
Per 19.15.29.8 B. (4) NM	AC the responsible party may commence re	emediation immediately after discovery of a release. If remediation	
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.			
		best of my knowledge and understand that pursuant to OCD rules and	
public health or the environn	nent. The acceptance of a C-141 report by the C	fications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have	
		at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws	
and/or regulations.			
Printed Name: Jim Rale	y	Title: Environmental Professional	
Signature:	,	Date:	
email: <u>Jim.Raley@dvn.</u>	com	Telephone: <u>575-689-7597</u>	
OCD Only			
Received by:		Date:	
received by.			

f New Mexico

Incident ID nHMP1407325518

Incident ID	nHMP1407325518
District RP	2RP-2211
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.

This information must be provided to the appropriate district office to taler than 20 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 		

Characterization Report Checklist: Each of the following items must be included in the report.
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☐ Field data
Data table of soil contaminant concentration data
Depth to water determination
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
Boring or excavation logs
Photographs including date and GIS information
☐ Topographic/Aerial maps
☐ Laboratory data including chain of custody

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

Received by OCD: 9/5/2023 9:12:26 AM State of New Mexico
Page 4 Oil Conservation Division

Page 5 of 216

Incident ID	nHMP1407325518
District RP	2RP-2211
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name: Jim Raley	Title: Environmental Professional		
Signature: fin Rhy	Date:		
email:Jim.Raley@dvn.com	Telephone: <u>575-689-7597</u>		
OCD Only			
Received by:	Date:		

Page 6 of 216

Incident ID	nHMP1407325518
District RP	2RP-2211
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following it	ems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete. Title: Environmental Professional
email: <u>Jim.Raley@dvn.com</u>	Telephone: <u>575-689-7597</u>
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:



CLOSURE REQUEST REPORT

Ross Draw Unit #012
Eddy County, New Mexico
Incident Numbers
nHMP1407325518
nAPP2315142829

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) detailing corrective actions and subsequent soil sampling events performed for two inadvertent releases of crude oil and produced water at the Ross Draw #012, also referred to as Ross Draw Unit #012 (Site). Based on completed remedial actions and laboratory analytical results from recent soil sampling events, WPX is requesting No Further Action (NFA) at the Site.

SITE LOCATION AND RELEASE BACKGROUND

The Site is located in Unit A, Section 33, Township 26 South, Range 30 East, in Eddy County, New Mexico (32.0047607°, -103.8798141°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM) (**Figure 1** in **Appendix A**).

nHMP1407325518

On March 5, 2014, it was discovered that a tank overflow resulted in the release of approximately 15 barrels (bbls) of crude oil and produced water within the secondary containment earthen berm; no fluids were recovered. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 on March 6, 2014, and was subsequently assigned Incident Number nHMP1407325518. **Figure 2** in **Appendix A** depicts the observed subject release footprint, hereafter referred to as the Area of Concern #1 (AOC #1). It should be noted that the original Form C-141 for Incident Number nHMP1407325518 did not include Global Positioning System (GPS) coordinates for the release but are provided on the updated Final Form C-141.

Between January 15 and February 25, 2020, Etech conducted initial site assessment and delineation activities at the Site to investigate residual soil impacts associated with the AOC #1 and an additional release on the same production pad (Incident Number nAB1702749185). Upon receipt of analytical results, a Closure Request (CR) was prepared and submitted on March 27, 2020, for both incidents. The NMOCD reviewed the CR and denied the request for Incident Number nHMP1407325518 on March 29, 2023, for the following reason:

"The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater."

Multiple soil borings have been advanced to assist with the depth to groundwater determination of the region since the denial of Incident Number nHMP1407325518 and is described below. Summaries of previous sampling events and laboratory analytical results may be referenced in the CR. However, a more recent spill (Incident Number nAPP2315142829) overlapping AOC #1 has invalidated the laboratory analytical data in the CR, as the data does not provide a current representation of residual soil impacts in same earthen containment impacted by Incident Number nHMP1407235518. WPX requested an extension of the deadline for the two overlapping releases to provide enough time for additional planning, remediation activities and subsequent corrective action report, which was approved by the NMOCD on June 15, 2023.

nAPP2315142829

On May 19, 2023, a tank overflow resulted in the release of approximately 30 bbls of produced water within the secondary containment earthen berm overlapping AOC #1. A vacuum truck was dispatched to

the Site and recovered approximately 20 bbls of free-standing fluids. WPX reported the release to the NMOCD on a Form C-141 on May 31, 2023, and was subsequently assigned Incident Number nAPP2315142829. **Figure 2** in **Appendix A** depicts the observed release footprint, hereafter referred to as the Area of Concern #2 (AOC #2).

SITE CHARACTERIZATION AND CLOSURE CRITERIA

Etech characterized the Site 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.

The nearest permitted water well used in the CR with depth to water data was United States Geological Survey (USGS) well 320125103514701, located approximately 1.6 miles northeast of the Site. USGS well 320125103514701 has a reported depth of water 117 feet below ground surface (bgs) from 1987. Due to the age of the groundwater measurement and the distance of the well from the Site (greater than 25 years old and greater than $\frac{1}{2}$ mile), NMOCD determined the data to be insufficient to assist with the regional groundwater depth estimate at the Site.

Since the submittal of the CR, on December 9, 2020, Talon LPE drilled a soil boring (MW-1), located approximately ½ mile northeast of the Site on the Ross Draw Unit #57 well pad. 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 fluids were observed throughout the drilling process nor after a 72-hour observation period. Following the observation period, the boring was plugged and abandoned according to the appropriate regulations. Well records for referenced wells are provided in **Appendix B**.

Based on the desktop review of the current Bureau of Land Management (BLM) Carlsbad Field Office (CFO) karst cave potential map, this Site is located in a medium potential karst area. All other potential receptors are not within the established buffers in NMAC 19.15.29.12. Receptor details and sources used to determine the site characterization are included in **Figure 1** in **Appendix A**.

Based on the results from the desktop review and estimated regional depth to groundwater at the Site, 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)
Total Petroleum Hydrocarbon (TPH)	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.

DELINEATION SOIL SAMPLING ACTIVITIES

On June 19, 2023, Etech conducted delineation activities to characterize residual impacted soil within and around AOC #1 and AOC #2. Two potholes (PH01 and PH02) were advanced within the secondary containment earthen berm impacted by the AOCs, and four potholes (PH03 through PH06) were advanced in every cardinal direction to confirm horizontal delineation of the AOCs. Delineation 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. A total of two samples were collected from each delineation soil sampling location, representing the highest observed field screening concentrations and the greatest depth. Field screening results and soil descriptions are included on soil sampling logs shown in **Appendix C**. The locations of the delineation soil samples are shown in **Figure 2** in **Appendix A**. Photographic documentation of delineation activities is included in **Appendix D**.

The delineation soil samples were placed directly 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 Analytical Laboratory (Envirotech) in Farmington, New Mexico, for analysis of COCs.

DELINEATION LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all delineation soil samples were below the applicable Site Closure Criteria, except for soil samples collected at 0.5-foot bgs from PH01 and PH02 locations where laboratory analytical results indicated elevated chloride and TPH concentrations. Laboratory analytical results for soil samples collected from PH03 through PH06 locations provided sufficient horizontal delineation for both AOCs. 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**.

EXCAVATION SOIL SAMPLING ACTIVITIES

From July 26, 2023, to July 27, 2023, Etech directed excavation activities via mechanical equipment by referencing PH01 and PH02 laboratory analytical results and by field screening soil for VOCs and chloride as described above. Following the removal of soil, Etech collected 5-point composite floor soil samples (FS01 through FS06) and sidewall samples (SW01 and SW02) at a sampling frequency of 200 square feet from the excavation. The 5-point composite soil samples were comprised of five equivalent aliquots homogenized in a 1-gallon, resealable plastic bag. The samples were then handled and analyzed for COCs 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**.

EXCAVATION 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 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 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 excavation 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 nHMP1407325518 and nAPP2315142829.

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

Sincerely,

Etech Environmental and Safety Solutions, Inc.

Gilbert Moreno Project Geologist 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: Delineation Soil Sample Locations

Figure 3: Excavation Soil Sample Locations

Appendix B: Referenced Well Records

Appendix C: Soil Sampling Logs **Appendix D**: Photographic Log

Appendix E: Tables

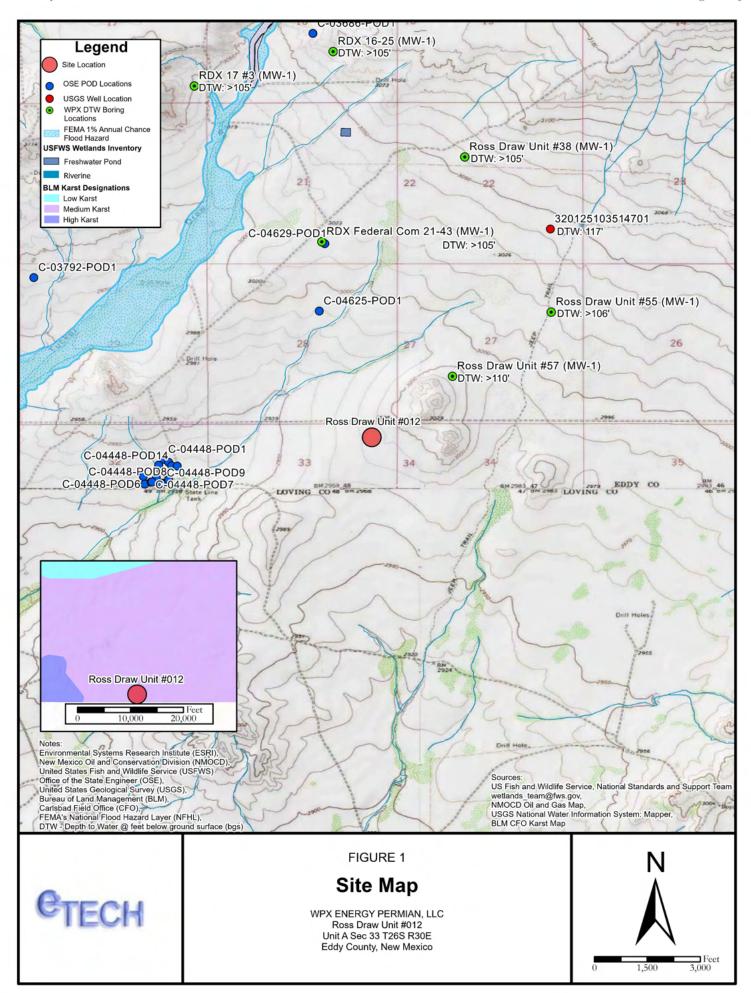
Appendix F: Laboratory Analytical Reports & Chain-of-Custody Documentation

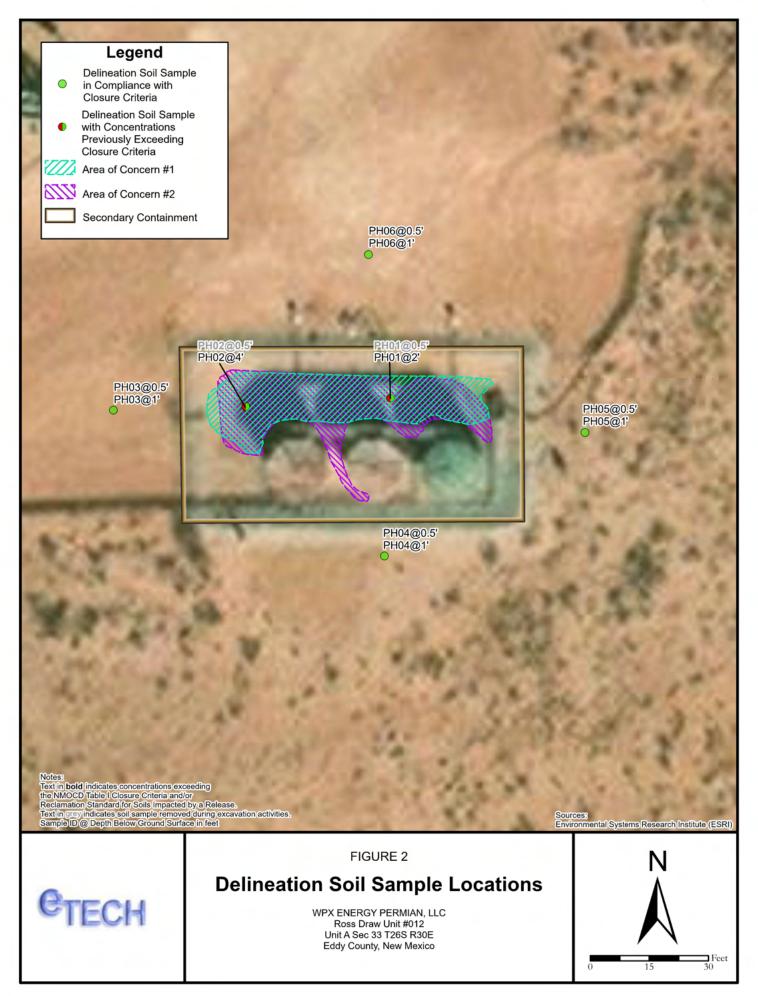
Appendix G: NMOCD NotificationsAppendix H: Original Closure Request

APPENDIX A

Figures









APPENDIX B

Referenced Well Record

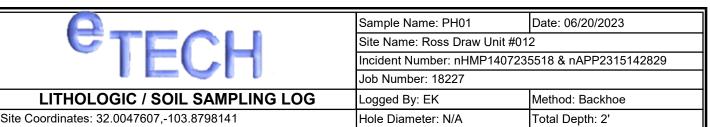


		HR	1						MONITORING W	ELL COMPLETION	N DIAG	RAM
		C O		IAN	СE		Boring/Wel		W-1	Location: Ross Draw U	Init #57	
		SO	1 11 7	I A N	NC		Date:	171	.vv-1	Client:)IIII #37	
	TM.	3 0	LUI	101	11 3			12/9	9/2020	WPX Energy		
	illing Method: Sampling Method:				Logged By:			Drilled By:				
	Air Rotai	У			one		a 1m	J. Lii	nn, PG	Talon L	PE	
Gravel Pac	k Type: 0/20 Sar	nd	Gravel Pac	k Depth Into	erval: Bags		Seal Type:	lone	Seal Depth Interval: None	Latitude: 32.010	32	
Casing Typ		Diameter:		Depth Inter	val:		Boring Tota	al Depth (ft. BC		Longitude:	32	
PVC		2-inch		0-105 fe					10	-103.872	246	
Screen Typ	e:	Slot:		Diameter:	Depth l	Interval:	Well Total	Depth (ft. BGS):	Depth to Water (ft. BTOC):	DTW Date:	
PVC	•	0.010-ii	nch	2-inch	105-	110 ft		11	10	> 110	12/16/	2020
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	NSCS	Sample ID	Litholog	y/Remarks	We Comp	
0 5 10 15 20 25 30 35	NM	L/M	D	N	N	NM	SM	NS		pale brown poorly fine sand	- - - - -	
40	NM	M	D	N	N	NM	SW	NS		orange well graded th gravel		
50 55	NM	M	D	N	N	NM	SM	NS	Pale orange red	tan silty fine sand		
60	NM	L	D	N	N	NM	SW	NS	Dark brown greyis	sh well graded sand		
70 75 80 85 90 95	NM	L/M	D to SL M	N	N	NM	SW	NS	Grey well	graded sand		
100 105	NM	L/M	D	N	N	NM	SM	NS		pale brown poorly ad - TD 110' bgs		

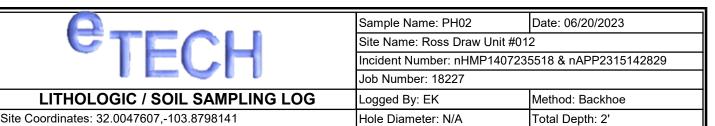
APPENDIX C

Soil Sampling Logs

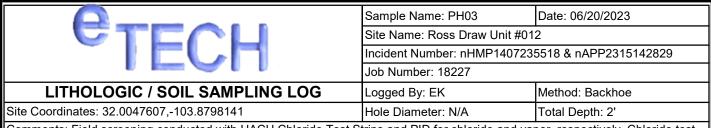




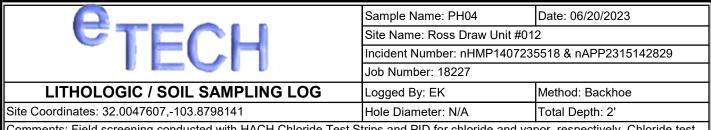
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	2,122	276.5	Yes	PH01	0.5	0	SW-SM	(0-2') SAND, dry, brown, well graded with silt, fine to coarse
Dry	1,944	43.0	No		1 _	_ 1		@1' no stain.
Dry	372	5.5	No	PH01	2 _	- _ 2		@2' color change to reddish brown, no odor, pad fill.



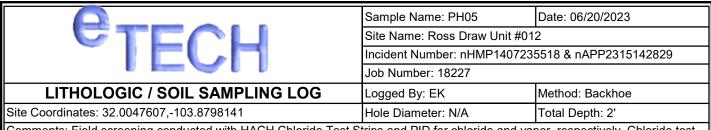
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	6,064	57.8	Yes	PH02	0.5	0	SW-SM	(0-4') SAND, dry, brown, well graded with silt, fine to coarse
Dry	372	26.0	No		1 _	1		@1' no stain.
Dry	<120	181.2	No		2 _	2		@2' color change to reddish brown, pad fill. @4' no odor.
Dry	<120	53.2	No		3 _	3		
Dry	<120	18.2	No	PH02	4 _	4		



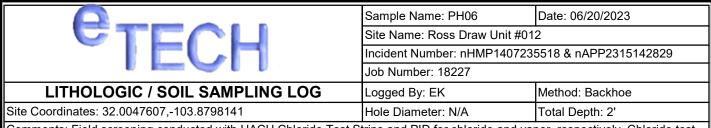
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry Dry	<120 <120	0.2		PH03 PH03	0.5	0 - _ 1	SW-SM	(0-1') SAND, dry, tan, well graded with silt, very fine to fine



Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry Dry	<120 <120	0.0	No No	PH04 PH04	0.5	0 - 1	SW-SM	(0-1') SAND, dry, tan, well graded with silt, very fine to fine .



Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry Dry	<120 <120	0.0		PH05 PH05	0.5	0 - _ 1	SW-SM	(0-1') SAND, dry, tan, well graded with silt, very fine to fine `



Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry Dry	<120 <120	0.0	No No	PH06 PH06	0.5	0 - 1	SW-SM	(0-1') SAND, dry, tan, well graded with silt, very fine to fine .

APPENDIX D

Photographic Log



eTECH

PHOTOGRAPHIC LOG

WPX Energy Permian, LLC Ross Draw Unit #012 nHMP1407325518 & nAPP2315142829



Care & Time, Men. Jun 19, 2023 at 10 46 62 MDT
Pesition = 032 004533 / =103 679627 refit 6/h
Altitude 2990h =9 6th
Carum-W65-94
Altimute Paging (52 No2 C 0924mis/Trapes14/s)
Elevation Angle =68.9*
Grizon Angle =08.9*
Grizon Angle =08.9*
Grizon Angle =08.9*

Photograph 1 Date: 06/19/2023 Description: Eastern view of delineation activities near PH02.

Photograph 2 Date: 06/19/2023
Description: Northeastern view of delineation activities near PH03.



Date 8. T. me. Thu. Jul 27, 2023 at 15.0.0.50 MDT
Postnor. 4002 002400 (1-102-879-82) iz 15.64.
Utilice 25954 val 10 m
Datum. W05-92
Aurenth Estruting Den Nebel 2020 mile benefablig
Den Nebel 2020 mile 2020

Photograph 3 Date: 06/19/2023 Description: Eastern view of delineation activities near PH06.

Photograph 4 Date: 07/27/2023

Description: Southeastern view of completed excavation extent.

eTECH

PHOTOGRAPHIC LOG

WPX Energy Permian, LLC Ross Draw Unit #012 nHMP1407325518 & nAPP2315142829



Photograph 5 Date: 07/27/2023

Description: Western view of completed excavation extent.

Photograph 6 Date: 07/27/2023

Description: Eastern view of completed excavation extent.





Photograph 7 Date: 08/09/2023 Description: Western view of completed backfill.

Photograph 8 Date: 08/09/2023 Description: Southwestern view of completed backfill.

APPENDIX E

Tables





Table 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC Ross Draw Unit #012 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 Closur Release (NMAC 19.15.2		s Impacted by a	10	50	NE	NE	NE	1,000	2,500	20,000
			De	elineation Soil Samples	- Incident Numbers ni	IMP1407235518 & nAP	P2315142829			
PH01	06/20/2023	0.5	<0.0250	0.728	24.5	1,300	542	1,542	1,566.5	6,660
PH01	06/20/2023	2	<0.0250	<0.0250	<20.0	70.6	<50.0	70.6	70.6	<200
PH02	06/20/2023	0.5	<0.0500	<0.0500	<40.0	8,510	4,050	12,560	12,560	6,630
PH02	06/20/2023	4	<0.0250	<0.0250	<20.0	56.4	<50.0	56.4	56.4	<200
PH03	06/20/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200
PH03	06/20/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200
PH04	06/20/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	116
PH04	06/20/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<100
PH05	06/20/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<100
PH05	06/20/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<100
PH06	06/20/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200
PH06	06/20/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200
			E	xcavation Soil Samples	- Incident Numbers n	MP1407235518 & nAP	P2315142829			
FS01	07/28/23	0.5-2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS02	07/28/23	0.5-2	<0.0250	<0.0250	<20.0	105	69.2	174.2	174.2	212
FS03	07/28/23	0.5-2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS04	07/28/23	0.5-2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS05	07/28/23	0.5-2	<0.0250	<0.0250	<20.0	212	146	358	358.0	381
FS06	07/28/23	0.5-2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200
SW01	07/28/23	0-2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200
SW02	07/28/23	0-2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200

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

TPH: Total Petroleum Hydrocarbon

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Text in "grey" represents excavated soil samples

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

APPENDIX F

Laboratory Analytical Reports & Chain-of-Custody Documentation



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: RDU 12

Work Order: E306160

Job Number: 01058-0007

Received: 6/21/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 8/21/23

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: 8/21/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDU 12 Workorder: E306160

Date Received: 6/21/2023 10:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/21/2023 10:00:00AM, under the Project Name: RDU 12.

The analytical test results summarized in this report with the Project Name: RDU 12 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

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

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

Envirotech Web Address: www.envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan

Technical Representative Office: 505-421-LABS(5227)

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
PH01 0.5'	5
PH01 2'	6
PH02 0.5'	7
PH02 4'	8
PH03 0.5'	9
PH03 1'	10
PH04 0.5'	11
PH04 1'	12
PH05 0.5'	13
PH05 1'	14
PH06 0.5'	15
PH06 1'	16
QC Summary Data	17
QC - Volatile Organics by EPA 8021B	17
QC - Nonhalogenated Organics by EPA 8015D - GRO	18
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	19
QC - Anions by EPA 300.0/9056A	20
Definitions and Notes	21
Chain of Custody etc.	22

Sample Summary

WPX Energy - Carlsbad	Project Name:	RDU 12	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	08/21/23 15:10

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 0.5'	E306160-01A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.
PH01 2'	E306160-02A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.
PH02 0.5'	E306160-03A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.
PH02 4'	E306160-04A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.
PH03 0.5'	E306160-05A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.
PH03 1'	E306160-06A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.
PH04 0.5'	E306160-07A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.
PH04 1'	E306160-08A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.
PH05 0.5'	E306160-09A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.
PH05 1'	E306160-10A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.
PH06 0.5'	E306160-11A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.
PH06 1'	E306160-12A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:10:36PM

PH01 0.5' E306160-01

	E300100-01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analyst: SL			Batch: 2325049
ND	0.0250	1	06/21/23	06/22/23	
0.128	0.0250	1	06/21/23	06/22/23	
ND	0.0250	1	06/21/23	06/22/23	
0.103	0.0250	1	06/21/23	06/22/23	
0.370	0.0500	1	06/21/23	06/22/23	
0.472	0.0250	1	06/21/23	06/22/23	
	98.7 %	70-130	06/21/23	06/22/23	
mg/kg	mg/kg	Analyst: SL			Batch: 2325049
24.5	20.0	1	06/21/23	06/22/23	
	90.6 %	70-130	06/21/23	06/22/23	
mg/kg	mg/kg	Analyst: KM			Batch: 2325064
1300	50.0	2	06/22/23	06/24/23	
542	100	2	06/22/23	06/24/23	
	88.5 %	50-200	06/22/23	06/24/23	
mg/kg	mg/kg	Analyst: RAS			Batch: 2325052
6660	400	20	06/21/23	06/23/23	
	mg/kg ND 0.128 ND 0.103 0.370 0.472 mg/kg 24.5 mg/kg 1300 542	Result Reporting mg/kg mg/kg ND 0.0250 0.128 0.0250 ND 0.0250 0.103 0.0250 0.370 0.0500 0.472 0.0250 98.7 % mg/kg mg/kg mg/kg 24.5 20.0 90.6 % mg/kg 1300 50.0 542 100 88.5 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Analys ND 0.0250 1 0.128 0.0250 1 ND 0.0250 1 0.103 0.0250 1 0.370 0.0500 1 0.472 0.0250 1 98.7 % 70-130 mg/kg mg/kg Analys 24.5 20.0 1 90.6 % 70-130 mg/kg mg/kg mg/kg Analys 1300 50.0 2 542 100 2 88.5 % 50-200 mg/kg Analys	Reporting Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 06/21/23 0.128 0.0250 1 06/21/23 ND 0.0250 1 06/21/23 0.103 0.0250 1 06/21/23 0.370 0.0500 1 06/21/23 0.472 0.0250 1 06/21/23 mg/kg mg/kg Analyst: SL 24.5 20.0 1 06/21/23 mg/kg mg/kg Analyst: KM 1300 50.0 2 06/22/23 542 100 2 06/22/23 88.5 % 50-200 06/22/23 mg/kg Mg/kg Analyst: RAS	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 06/21/23 06/22/23 0.128 0.0250 1 06/21/23 06/22/23 ND 0.0250 1 06/21/23 06/22/23 0.103 0.0250 1 06/21/23 06/22/23 0.370 0.0500 1 06/21/23 06/22/23 0.472 0.0250 1 06/21/23 06/22/23 mg/kg mg/kg Analyst: SL 24.5 20.0 1 06/21/23 06/22/23 mg/kg mg/kg Analyst: KM 1300 50.0 2 06/22/23 06/24/23 542 100 2 06/22/23 06/24/23 88.5 % 50-200 06/22/23 06/22/23 06/24/23 mg/kg mg/kg Analyst: RAS



WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:10:36PM

PH01 2'

E306160-02

		Reporting				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	/st: SL		Batch: 2325049
Benzene	ND	0.0250	1	06/21/23	06/22/23	
Ethylbenzene	ND	0.0250	1	06/21/23	06/22/23	
Toluene	ND	0.0250	1	06/21/23	06/22/23	
o-Xylene	ND	0.0250	1	06/21/23	06/22/23	
p,m-Xylene	ND	0.0500	1	06/21/23	06/22/23	
Total Xylenes	ND	0.0250	1	06/21/23	06/22/23	
Surrogate: 4-Bromochlorobenzene-PID		97.3 %	70-130	06/21/23	06/22/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/23	06/22/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.8 %	70-130	06/21/23	06/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2325064
Diesel Range Organics (C10-C28)	70.6	25.0	1	06/22/23	06/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/22/23	06/24/23	
Surrogate: n-Nonane		76.7 %	50-200	06/22/23	06/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: RAS		Batch: 2325052
Chloride	ND	200	10	06/21/23	06/23/23	



WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:10:36PM

PH02 0.5'

E306160-03						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: SL		Batch: 2325049
Benzene	ND	0.0500	2	06/21/23	06/23/23	
Ethylbenzene	ND	0.0500	2	06/21/23	06/23/23	
Toluene	ND	0.0500	2	06/21/23	06/23/23	
o-Xylene	ND	0.0500	2	06/21/23	06/23/23	
p,m-Xylene	ND	0.100	2	06/21/23	06/23/23	
Total Xylenes	ND	0.0500	2	06/21/23	06/23/23	
Surrogate: 4-Bromochlorobenzene-PID		93.5 %	70-130	06/21/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: SL		Batch: 2325049
Gasoline Range Organics (C6-C10)	ND	40.0	2	06/21/23	06/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.8 %	70-130	06/21/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2325064
Diesel Range Organics (C10-C28)	8510	500	20	06/22/23	06/24/23	
Oil Range Organics (C28-C36)	4050	1000	20	06/22/23	06/24/23	
Surrogate: n-Nonane		114 %	50-200	06/22/23	06/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: RAS		Batch: 2325052
Chloride	6630	400	20	06/21/23	06/23/23	



WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:10:36PM

PH02 4'

E3061	1/1	Λ
r.auo	เดบ-	-114

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: SL		Batch: 2325049
Benzene	ND	0.0250	1	06/21/23	06/23/23	
Ethylbenzene	ND	0.0250	1	06/21/23	06/23/23	
Toluene	ND	0.0250	1	06/21/23	06/23/23	
o-Xylene	ND	0.0250	1	06/21/23	06/23/23	
p,m-Xylene	ND	0.0500	1	06/21/23	06/23/23	
Total Xylenes	ND	0.0250	1	06/21/23	06/23/23	
Surrogate: 4-Bromochlorobenzene-PID		96.1 %	70-130	06/21/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: SL		Batch: 2325049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/23	06/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.4 %	70-130	06/21/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2325064
Diesel Range Organics (C10-C28)	56.4	25.0	1	06/22/23	06/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/22/23	06/24/23	
Surrogate: n-Nonane		79.5 %	50-200	06/22/23	06/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: RAS		Batch: 2325052
Chloride	ND	200	10	06/21/23	06/23/23	



WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:10:36PM

PH03 0.5'

E306160-05						
Reporting						
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: SL		Batch: 2325049
Benzene	ND	0.0250	1	06/21/23	06/23/23	
Ethylbenzene	ND	0.0250	1	06/21/23	06/23/23	
Toluene	ND	0.0250	1	06/21/23	06/23/23	
o-Xylene	ND	0.0250	1	06/21/23	06/23/23	
p,m-Xylene	ND	0.0500	1	06/21/23	06/23/23	
Total Xylenes	ND	0.0250	1	06/21/23	06/23/23	
Surrogate: 4-Bromochlorobenzene-PID		90.5 %	70-130	06/21/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: SL		Batch: 2325049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/23	06/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.9 %	70-130	06/21/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2325064
Diesel Range Organics (C10-C28)	ND	25.0	1	06/22/23	06/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/22/23	06/24/23	
Surrogate: n-Nonane		81.8 %	50-200	06/22/23	06/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2325052
Chloride	ND	200	10	06/21/23	06/23/23	



WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:10:36PM

PH03 1'

E306160-06

Reporting							
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2325049	
Benzene	ND	0.0250	1	06/21/23	06/23/23		
Ethylbenzene	ND	0.0250	1	06/21/23	06/23/23		
Toluene	ND	0.0250	1	06/21/23	06/23/23		
o-Xylene	ND	0.0250	1	06/21/23	06/23/23		
p,m-Xylene	ND	0.0500	1	06/21/23	06/23/23		
Total Xylenes	ND	0.0250	1	06/21/23	06/23/23		
Surrogate: 4-Bromochlorobenzene-PID		95.6 %	70-130	06/21/23	06/23/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2325049	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/23	06/23/23		
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.3 %	70-130	06/21/23	06/23/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2325064	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/22/23	06/24/23		
Oil Range Organics (C28-C36)	ND	50.0	1	06/22/23	06/24/23		
Surrogate: n-Nonane		78.3 %	50-200	06/22/23	06/24/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2325052	
Chloride	ND	200	10	06/21/23	06/23/23		



WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:10:36PM

PH04 0.5'

		E306160-07				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: SL		Batch: 2325049
Benzene	ND	0.0250	1	06/21/23	06/23/23	
Ethylbenzene	ND	0.0250	1	06/21/23	06/23/23	
Toluene	ND	0.0250	1	06/21/23	06/23/23	
o-Xylene	ND	0.0250	1	06/21/23	06/23/23	
p,m-Xylene	ND	0.0500	1	06/21/23	06/23/23	
Total Xylenes	ND	0.0250	1	06/21/23	06/23/23	
Surrogate: 4-Bromochlorobenzene-PID		93.2 %	70-130	06/21/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2325049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/23	06/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.0 %	70-130	06/21/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2325064
Diesel Range Organics (C10-C28)	ND	25.0	1	06/22/23	06/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/22/23	06/24/23	
Surrogate: n-Nonane		81.3 %	50-200	06/22/23	06/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: RAS		Batch: 2325052
Chloride	116	100	5	06/21/23	06/23/23	



WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:10:36PM

PH04 1'

E306160-08

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: SL		Batch: 2325049
Benzene	ND	0.0250	1	06/21/23	06/23/23	
Ethylbenzene	ND	0.0250	1	06/21/23	06/23/23	
Toluene	ND	0.0250	1	06/21/23	06/23/23	
o-Xylene	ND	0.0250	1	06/21/23	06/23/23	
p,m-Xylene	ND	0.0500	1	06/21/23	06/23/23	
Total Xylenes	ND	0.0250	1	06/21/23	06/23/23	
Surrogate: 4-Bromochlorobenzene-PID		94.7 %	70-130	06/21/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2325049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/23	06/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.6 %	70-130	06/21/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2325064
Diesel Range Organics (C10-C28)	ND	25.0	1	06/22/23	06/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/22/23	06/24/23	
Surrogate: n-Nonane		92.0 %	50-200	06/22/23	06/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: RAS		Batch: 2325052
Chloride	ND	100	5	06/21/23	06/23/23	



WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:10:36PM

PH05 0.5'

		E306160-09				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2325049
Benzene	ND	0.0250	1	06/21/23	06/23/23	
Ethylbenzene	ND	0.0250	1	06/21/23	06/23/23	
Toluene	ND	0.0250	1	06/21/23	06/23/23	
o-Xylene	ND	0.0250	1	06/21/23	06/23/23	
p,m-Xylene	ND	0.0500	1	06/21/23	06/23/23	
Total Xylenes	ND	0.0250	1	06/21/23	06/23/23	
Surrogate: 4-Bromochlorobenzene-PID		92.7 %	70-130	06/21/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2325049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/23	06/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.4 %	70-130	06/21/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2325064
Diesel Range Organics (C10-C28)	ND	25.0	1	06/22/23	06/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/22/23	06/24/23	
Surrogate: n-Nonane		89.9 %	50-200	06/22/23	06/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: RAS		Batch: 2325052
Chloride	ND	100	5	06/21/23	06/23/23	



WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:10:36PM

PH05 1'

E306160-10

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: SL		Batch: 2325049
Benzene	ND	0.0250	1	06/21/23	06/23/23	
Ethylbenzene	ND	0.0250	1	06/21/23	06/23/23	
Toluene	ND	0.0250	1	06/21/23	06/23/23	
o-Xylene	ND	0.0250	1	06/21/23	06/23/23	
p,m-Xylene	ND	0.0500	1	06/21/23	06/23/23	
Total Xylenes	ND	0.0250	1	06/21/23	06/23/23	
Surrogate: 4-Bromochlorobenzene-PID		95.7 %	70-130	06/21/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2325049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/23	06/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.2 %	70-130	06/21/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2325064
Diesel Range Organics (C10-C28)	ND	25.0	1	06/22/23	06/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/22/23	06/24/23	
Surrogate: n-Nonane		92.1 %	50-200	06/22/23	06/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: RAS		Batch: 2325052
Chloride	ND	100	5	06/21/23	06/23/23	



WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:10:36PM

PH06 0.5'

		E306160-11				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: SL		Batch: 2325049
Benzene	ND	0.0250	1	06/21/23	06/23/23	
Ethylbenzene	ND	0.0250	1	06/21/23	06/23/23	
Toluene	ND	0.0250	1	06/21/23	06/23/23	
o-Xylene	ND	0.0250	1	06/21/23	06/23/23	
p,m-Xylene	ND	0.0500	1	06/21/23	06/23/23	
Total Xylenes	ND	0.0250	1	06/21/23	06/23/23	
Surrogate: 4-Bromochlorobenzene-PID		96.1 %	70-130	06/21/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2325049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/23	06/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.5 %	70-130	06/21/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2325064
Diesel Range Organics (C10-C28)	ND	25.0	1	06/22/23	06/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/22/23	06/24/23	
Surrogate: n-Nonane		92.3 %	50-200	06/22/23	06/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2325052
Chloride	ND	200	10	06/21/23	06/23/23	



WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:10:36PM

PH06 1'

E306160-12

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: SL		Batch: 2325049
Benzene	ND	0.0250	1	06/21/23	06/23/23	
Ethylbenzene	ND	0.0250	1	06/21/23	06/23/23	
Toluene	ND	0.0250	1	06/21/23	06/23/23	
o-Xylene	ND	0.0250	1	06/21/23	06/23/23	
o,m-Xylene	ND	0.0500	1	06/21/23	06/23/23	
Total Xylenes	ND	0.0250	1	06/21/23	06/23/23	
Surrogate: 4-Bromochlorobenzene-PID		95.1 %	70-130	06/21/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: SL		Batch: 2325049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/23	06/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.9 %	70-130	06/21/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2325064
Diesel Range Organics (C10-C28)	ND	25.0	1	06/22/23	06/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/22/23	06/24/23	
Surrogate: n-Nonane		82.6 %	50-200	06/22/23	06/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: RAS		Batch: 2325052
Chloride	ND	200	10	06/21/23	06/23/23	



RDU 12 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 8/21/2023 3:10:36PM **Volatile Organics by EPA 8021B** Analyst: SL Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2325049-BLK1) Prepared: 06/21/23 Analyzed: 06/22/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.61 8.00 95.1 70-130 LCS (2325049-BS1) Prepared: 06/21/23 Analyzed: 06/22/23 5.12 102 70-130 5.00 Benzene 0.0250 Ethylbenzene 5.01 0.0250 5.00 100 70-130 5.08 0.0250 5.00 102 70-130 Toluene 5.02 o-Xylene 0.0250 5.00 100 70-130 10.2 10.0 102 70-130 0.0500 p.m-Xvlene 102 70-130 15.2 15.0 Total Xylenes 0.0250 8.00 95.6 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.65 Matrix Spike (2325049-MS1) Source: E306159-07 Prepared: 06/21/23 Analyzed: 06/22/23 4.99 0.0250 5.00 ND 54-133 Benzene ND 97.8 61-133 Ethylbenzene 4.89 0.0250 5.00 Toluene 4.96 0.0250 5.00 ND 99.1 61-130 4.89 ND 97.8 63-131 5.00 0.0250 o-Xylene p,m-Xylene 9.96 0.0500 10.0 ND 99.6 63-131 14.9 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.59 8.00 Matrix Spike Dup (2325049-MSD1) Source: E306159-07 Prepared: 06/21/23 Analyzed: 06/22/23 5.22 0.0250 5.00 ND 54-133 4.56 20 ND 61-133 4.99 5.14 0.0250 5.00 103 20 Ethylbenzene 61-130 Toluene 5.20 0.0250 5.00 ND 104 4.72 20 5.13 5.00 ND 103 63-131 4.76 20 o-Xylene 0.0250 10.4 10.0 ND 104 63-131 4.78 20 p,m-Xylene 0.0500



15.6

7.64

0.0250

15.0

8.00

ND

104

95.5

63-131

70-130

4.77

20

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDU 12	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:10:36PM

Carlsbad NM, 88220		Project Manager		lbert Moreno				:	8/21/2023 3:10:36PM
	Non	halogenated	Organics l	by EPA 801	[5D - G]	RO			Analyst: SL
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2325049-BLK1)							Prepared: 0	6/21/23 Ar	nalyzed: 06/22/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		8.00		90.9	70-130			
LCS (2325049-BS2)							Prepared: 0	6/21/23 Ar	nalyzed: 06/22/23
Gasoline Range Organics (C6-C10)	46.3	20.0	50.0		92.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.2	70-130			
Matrix Spike (2325049-MS2)				Source:	E306159-	07	Prepared: 0	6/21/23 Ar	nalyzed: 06/22/23
Gasoline Range Organics (C6-C10)	46.7	20.0	50.0	ND	93.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.7	70-130			
Matrix Spike Dup (2325049-MSD2)				Source:	E306159-	07	Prepared: 0	6/21/23 Ar	nalyzed: 06/22/23
Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.2	70-130	0.786	20	

8.00

7.36

91.9

70-130

WPX Energy - Carlsbad	Project Name:	RDU 12	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:10:36PM

Carlsbad NM, 88220		Project Manage	r: Gı	lbert Moreno				;	8/21/2023 3:10:36PN
	Nonha	logenated Or	ganics 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 (2325064-BLK1)							Prepared: 0	6/22/23 Ar	nalyzed: 06/23/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.7		50.0		97.4	50-200			
LCS (2325064-BS1)							Prepared: 0	6/22/23 Ar	nalyzed: 06/23/23
Diesel Range Organics (C10-C28)	270	25.0	250		108	38-132			
Surrogate: n-Nonane	34.5		50.0		68.9	50-200			
Matrix Spike (2325064-MS1)				Source:	E306160-	04	Prepared: 0	6/22/23 Ar	nalyzed: 06/23/23
Diesel Range Organics (C10-C28)	342	25.0	250	56.4	114	38-132			
Surrogate: n-Nonane	31.1		50.0		62.2	50-200			
Matrix Spike Dup (2325064-MSD1)				Source:	E306160-	04	Prepared: 0	6/22/23 Ar	nalyzed: 06/23/23
Diesel Range Organics (C10-C28)	367	25.0	250	56.4	124	38-132	7.07	20	
Surrogate: n-Nonane	30.7		50.0		61.4	50-200			

QC Summary Data

WPX Energy - Carlsbad		Project Name:		DU 12					Reported:
5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager		1058-0007 ilbert Moreno					8/21/2023 3:10:36PM
		Anions	by EPA	300.0/9056 <i>A</i>	4				Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2325052-BLK1)							Prepared: 0	6/21/23 A	analyzed: 06/23/23
Chloride	ND	20.0							
LCS (2325052-BS1)							Prepared: 0	6/21/23 A	analyzed: 06/23/23
Chloride	246	20.0	250		98.6	90-110			
Matrix Spike (2325052-MS1)				Source:	E306159-	01	Prepared: 0	6/21/23 A	analyzed: 06/23/23
Chloride	264	20.0	250	ND	106	80-120			
Matrix Spike Dup (2325052-MSD1)				Source:	E306159-	01	Prepared: 0	6/21/23 A	analyzed: 06/23/23
Chloride	264	20.0	250	ND	106	80-120	0.0462	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

	WPX Energy - Carlsbad	Project Name:	RDU 12	
-	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	08/21/23 15:10

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.



	~
	10
f	0
T	œ
	Cont.
	₩.
	~
	70
	2
	0
- *	_
	-
	0
	$\overline{}$
	$(\)$
	C
	•=
	-
	C
	~
	0
	₹'
	•
	0
	N. 1
	,~
	Ü
	V
	٠.
	٠.
	N.
	~
	0
	K.
	1

Client: V	VPX Energy Pe	rmian LL	C.		Bill To Lab Use Only TAT								AT	EPA Program						
Project:						ention: Jim Raley	W		WO#			Job	Num	ber	1D	2D	3D	Standard	CWA	SDWA
	Manager: Gilb				Add	dress: 5315 Buena Vista Dr.		TE3	300	160	0	010	58	-0007				5 day TAT		
Address	: 13000 W Cou	unty Rd 1	00		City	y, State, Zip: Carlsbad, NM, 8822	0							nd Meth	od			Electric		RCRA
	te, Zip_Odessa	a,TX, 797	65		Pho	one: 575-885-7502			by											
Phone: 8	332-541-7719			7	Em	ail: jim.raley@dvn.com			ORO								-		State	-
Email: D	evon-team@e	etechenv.	com		WB	S/WO: IBD 4 2116991	1		0/0	1	١.	2000	0.		Σ			NM CO	UT AZ	TX
Collected	d by: Edyte Ko	nan		113	Inci	ident ID: nAB1702749185 Cd		1 =	J/D	802	8260	010	300	l l		1	¥			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		nAPP2315142829	Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		верос		СБОС		Remarks	
10:00	6/20/2023	S	1			PH01	1	0.5	'						х					
10:10	6/20/2023	S	1			PH01	2	2'	64	×		871			х					
10:20	6/20/2023	S	1			PH02	3	0.5							х					
10:30	6/20/2023	S	1			PH02	4	4'							х					
10:40	6/20/2023	S	1			PH03	5	0.5	1						х					
10:50	6/20/2023	S	1	,	PH03	(0	1'							х						
11:00	6/20/2023	S	1			PH04	7	0.5							х					
11:10	6/20/2023	S	1			PH04	8	1'							х					
11:20	6/20/2023	S	1			PH05	9	0.5							х					
11:30	6/20/2023	S	1			PH05	10	1'		H					х					
Addition	al Instruction	s:	all the second	in a																
	pler), attest to the of collection is co					tampering with or intentionally mislabelling	the sample l	ocatio	n,									ceived on ice the da less than 6 °C on sub		oled or
	d by: (Signature	e)	Date		515	Received by: (Signature)	Date 620	23	Time	5/5		Rece	eivec	l on ice:		ab U	se On	ily		
Mid	ed by: (Signature	12	Date		700	Received by: (Signature)	Date 6-20		Time			T1			T2			Т3		
Relinguish	ed by: (Signature	VSSO	Date	-20-23 Z	230	Received by (Kignature)	Pate /21	2	Time	χ	\bigcirc	AVG	Ten	np °C	4					
	rix: S - Soil, Sd - So					The state of the s	Containe	r Typ	e: g -	glass,	p - p	oly/p	lasti	c, ag - am	ber gl	lass, v	- VO	A		
Note: Sam	ples are discarde	d 30 days a	fter results	are reported ur	nless other a	arrangements are made. Hazardous sa	mples will b	e retu	urned t	to clie	nt or	dispos	ed of	at the clie	ent exp	ense.	The	report for the a	nalysis of th	e above
samples is	applicable only t	o those san	nples recei	ved by the labor	atory with t	his COC. The liability of the laboratory i	s limited to	the ar	mount	paid t	for on	the re	eport							



enviroteche enviroteche

2	2 01	10
n	1	ived by
n VA		OCD:
RA	+	
		9/5/2023
		202
	+	3 9:
	-	- 2
		12

Client: WPX Energy Permian LLC.	Bill To	Bill To			Lab Use Only						TA	EPA Program		
Project: RDU 12	Attention: Jim Raley			Lab WO#			Job Number			2D	3D	Standard	CWA	SDWA
Project Manager: Gilbert Moreno	Address: 5315 Buena Vista Dr.		F?	300	110	0	Olo	58-000	7			5 day TAT		
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220)						sis and Metho						RCRA
City, State, Zip_Odessa,TX, 79765	Phone: 575-885-7502			λα			Πİ		T					
Phone: 832-541-7719	Email: jim.raley@dvn.com		1 1	RO									State	
Email: Devon-team@etechenv.com	WBS/WO: TBB 64 211699!		1 1	0/0			NM CO UT AZ T						TX	
Collected by: Edyte Konan	Incident ID: nAB1702749185 GR		_	/DR	302.	260	010	300						
Time Sampled Date Sampled Matrix No. of Containers Sample ID	napp 2315142829	Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC		GDOC		Remarks	
11:40 6/20/2023 S 1	PH06	11	0.5'						X					
11:50 6/20/2023 _S 1	PH06	12	1'						X		П			
									+					
									-	-			~	
									-					
									_					
									10					
														-
Additional Instructions:	Alexander or a region of the		-											
I, (field sampler), attest to the validity and authenticity of this sample. date or time of collection is considered fraud and may be grounds for		the sample	location	n,			576					eceived on ice the da less than 6 °C on sub		oled or
The state of the s	Regeived by: (Signature)	Date Co-20	23	Time	5/5	<u> </u>	Rece	ived on ice:		Lab L	se On	ly		
	Firme Received by: (Signature) 1700 ANSW Northo	Date 620		Time	700		T1 T2 T3							
	Time Received by: (Signature)	10/21	22	Time	X	5		Temp °C	4			- 13		
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Note: Samples are discarded 30 days after results are reported	d unless other arrangements are made. Hazardous sai					p - p	oly/p	astic, ag - am					nalysis of th	e above



ent or disposed of at the client expense. The report for the analysis of the above

ent or disposed of at the client expense. The report for the analysis of the above

ent or disposed of at the client expense. The report for the analysis of the above

Printed: 6/21/2023 12:09:10PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	06/21/23	10:00	Work Order ID:	E306160
Phone:	(539) 573-4018	Date Logged In:	06/21/23	11:52	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	06/27/23	17:00 (4 day TAT)		
Chain of	Custody (COC)					
	Custody (COC)		37			
	he sample ID match the COC? he number of samples per sampling site location matc	h the COC	Yes			
	amples dropped off by client or carrier?	in the coc	Yes Yes	Comion Courier		
	e COC complete, i.e., signatures, dates/times, request	ed analyses?	Yes	Carrier: Courier		
	ill samples received within holding time?	ed analyses:	Yes			
3. Wele a	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion		103		Comment	s/Resolution
	<u> [urn Around Time (TAT)</u>					
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample (
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes	, were custody/security seals intact?		NA			
	ne sample received on ice? If yes, the recorded temp is 4°C, i Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample t	received w/i 15	Yes <u>C</u>			
Sample (<u>Container</u>					
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA			
17. Was a	a trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers?		Yes			
	appropriate volume/weight or number of sample contained	ers collected?	Yes			
Field La	bel					
	field sample labels filled out with the minimum infor	mation:				
S	ample ID?		Yes			
	Pate/Time Collected?		Yes			
	Collectors name?		Yes			
	Preservation	10				
	the COC or field labels indicate the samples were pre	eserved?	No			
	ample(s) correctly preserved?	. 1.0	NA			
	filteration required and/or requested for dissolved me	etais?	No			
	ase Sample Matrix					
	the sample have more than one phase, i.e., multiphase		No			
27. If yes	, does the COC specify which phase(s) is to be analyze	zed?	NA			
Subconti	ract Laboratory					
	amples required to get sent to a subcontract laborator a subcontract laboratory specified by the client and if		No NA	Subcontract Lab: NA		
Client I	<u>nstruction</u>					
<u></u>						

Date

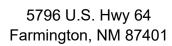
																							e 1 of More	Recei
Project In	nformation							in of Custo														Pag	e 1 of	2 ved
Client: M	/PX Energy Pe	rmian II	C		Inc	ident	- ID: NAPI	P2319	714	128	390	3	3 r	HI	MP1	40	73	329	55	18	del	per.	G.	by O
Project:		Tillali LL	<u>. </u>						Lab WO# Job Number 1							10	1D 2D 3D Standard CWA S						More	ero
	Manager: Gilb	ert More	no	Contraction of the last	Add	ntion: Jim	Buena Vista Dr.		Lab	300	110				0007	10	20	3D		y TAT	CWA	SDWA	ALL	
Address:	13000 W Cou	inty Rd 1	00			220	E	w w	iw		Analy	cican	d Motho	4			3 08	y IAI		RCRA	5	15		
	e, Zip_Odessa					ne: 575-88	Carlsbad, NM, 882	-20		>		Í	Analysis and Method									NCNA	18/2	12
	32-541-7719						/@dvn.com			900								-		State			23	
	evon-team@e	techenv.	com	Water Barrier	WBS	/WO: IPP	- CH 211699	111	- 10	0/0				0		5			I	MI CO	UT AZ	TXI	10000	9
Collected	by: Edyte Ko	nan			Incid	lent ID: nA	81702749185 G	4	1-	/DR	8021	260	010	300.		Z		¥			01 712		10.00	12
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		MAP	2315142829	Lab Number	Depth(ft.)	трн GRO/DRO/ORO by 8015	BTEX by 2	VOC by 8260	Metals 6010	Chloride 300.0		верос		GDOC	Ī		Remark		8/21	26 A
10:00	6/20/2023	S	1			PH01		1	0.5							X								X
10:10	6/20/2023	S	1			PH01		2	2'							X								
10:20	6/20/2023	S	1			PH02		3	0.5							Х								
10:30	6/20/2023	S	1			PH02		4	4'							Х								
10:40	6/20/2023	S	1			PH03		5	0.5					+		Х								f 25
10:50	6/20/2023	S	1			PH03		(0	1'							Х								25 of
11:00	6/20/2023	S	1			PH04		7	0.5							х								Page
11:10	6/20/2023	S	1			PH04		8	1'						A A	X								
11:20	6/20/2023	S	1			PH05		9	0.5							Х								
11:30	6/20/2023	S	1			PH05		10	1'							Х								
	al Instruction																							
date or time	of collection is con	nsidered frau				ampering with	or intentionally mislabelli ampled by: EK	ing the sample	location	n,											they are sam equent days.	eled or		
(34)	d by: (Signature		Date 6.1		515	Received by:	(Signature)	- 620	23	Time	5/5		Rece	ived	on ice:	(Y	b Use	e Onl	У					
Mich	ed by: (Signature	1	Date	1023 Tim	700	Received by:	(Signature)	6-20		Time	00		T1			T2			_ I	3				
Relinguishe	ed by: (Signature	Koso	Date	20-23	230	Received by:		Pate /21	2	Time	Y)	AVG	Tem	p°C_	1								
	ix: S - Soil, Sd - Sol						harry.	Containe	г Тур	e: g - g	glass,	p - pi	oly/pl	lastic,	ag - aml	ber gla	ss, v -	VOA		311.73				
Note: Samp samples is	les are discarde applicable only t	d 30 days a o those san	fter results nples receiv	are reported u yed by the labor	nless other ar	rangements : is COC. The li	are made. Hazardous ability of the laborator	samples will by is limited to	e retu	rned t	o clier paid f	nt or o	dispose the re	ed of a	t the clie	nt expe	nse.	The re	port fo	or the an	alysis of th	e above		F



envirotech Page 56 of 216

Report to:
Gilbert Moreno





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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDU 12

Work Order: E307176

Job Number: 01058-0007

Received: 7/31/2023

Revision: 3

Report Reviewed By:

Walter Hinchman Laboratory Director 8/22/23

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: 8/22/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDU 12 Workorder: E307176

Date Received: 7/31/2023 7:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/31/2023 7:15:00AM, under the Project Name: RDU 12.

The analytical test results summarized in this report with the Project Name: RDU 12 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

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

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

West Texas Midland/Odessa Area Rayny Hagan

Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
FS01 0.5-2'	5
FS02 0.5-2'	6
FS03 0.5-2'	7
FS04 0.5-2'	8
FS05 0.5-2'	9
FS06 0.5-2'	10
QC Summary Data	11
QC - Volatile Organics by EPA 8021B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

WPX Energy - Carlsbad	Project Name:	RDU 12	Donoutoda
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	08/22/23 13:56

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
FS01 0.5-2'	E307176-01A Soil	07/28/23	07/31/23	Glass Jar, 2 oz.
FS02 0.5-2'	E307176-02A Soil	07/28/23	07/31/23	Glass Jar, 2 oz.
FS03 0.5-2'	E307176-03A Soil	07/28/23	07/31/23	Glass Jar, 2 oz.
FS04 0.5-2'	E307176-04A Soil	07/28/23	07/31/23	Glass Jar, 2 oz.
FS05 0.5-2'	E307176-05A Soil	07/28/23	07/31/23	Glass Jar, 2 oz.
FS06 0.5-2'	E307176-06A Soil	07/28/23	07/31/23	Glass Jar, 2 oz.



WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/22/2023 1:56:44PM

FS01 0.5-2' E307176-01

		E30/1/6-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
7 mary c	Result	Limit	Dilution	Trepared	7 thary zec	110103
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2331002
Benzene	ND	0.0250	1	07/31/23	08/01/23	
Ethylbenzene	ND	0.0250	1	07/31/23	08/01/23	
Toluene	ND	0.0250	1	07/31/23	08/01/23	
o-Xylene	ND	0.0250	1	07/31/23	08/01/23	
p,m-Xylene	ND	0.0500	1	07/31/23	08/01/23	
Total Xylenes	ND	0.0250	1	07/31/23	08/01/23	
Surrogate: 4-Bromochlorobenzene-PID		96.4 %	70-130	07/31/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2331002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	08/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.8 %	70-130	07/31/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2331016
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	08/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	08/02/23	
Surrogate: n-Nonane		94.8 %	50-200	07/31/23	08/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2331010
Chloride	ND	200	10	07/31/23	08/02/23	



WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/22/2023 1:56:44PM

FS02 0.5-2'

		E307176-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: IY		Batch: 2331002
Benzene	ND	0.0250	1	07/31/23	08/01/23	
Ethylbenzene	ND	0.0250	1	07/31/23	08/01/23	
Toluene	ND	0.0250	1	07/31/23	08/01/23	
o-Xylene	ND	0.0250	1	07/31/23	08/01/23	
p,m-Xylene	ND	0.0500	1	07/31/23	08/01/23	
Total Xylenes	ND	0.0250	1	07/31/23	08/01/23	
Surrogate: 4-Bromochlorobenzene-PID		95.6 %	70-130	07/31/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: IY		Batch: 2331002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	08/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.6 %	70-130	07/31/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2331016
Diesel Range Organics (C10-C28)	105	25.0	1	07/31/23	08/02/23	
Oil Range Organics (C28-C36)	69.2	50.0	1	07/31/23	08/02/23	
Surrogate: n-Nonane		95.8 %	50-200	07/31/23	08/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2331010
Chloride	212	200	10	07/31/23	08/02/23	



WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/22/2023 1:56:44PM

FS03 0.5-2'

E307176-03						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: IY		Batch: 2331002
Benzene	ND	0.0250	1	07/31/23	08/01/23	
Ethylbenzene	ND	0.0250	1	07/31/23	08/01/23	
Toluene	ND	0.0250	1	07/31/23	08/01/23	
o-Xylene	ND	0.0250	1	07/31/23	08/01/23	
p,m-Xylene	ND	0.0500	1	07/31/23	08/01/23	
Total Xylenes	ND	0.0250	1	07/31/23	08/01/23	
Surrogate: 4-Bromochlorobenzene-PID		96.5 %	70-130	07/31/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: IY		Batch: 2331002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	08/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	07/31/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	rst: KM		Batch: 2331016
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	08/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	08/02/23	
Surrogate: n-Nonane		98.3 %	50-200	07/31/23	08/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: BA		Batch: 2331010
Chloride	ND	200	10	07/31/23	08/02/23	



WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/22/2023 1:56:44PM

FS04 0.5-2'

		E307176-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: IY		Batch: 2331002
Benzene	ND	0.0250	1	07/31/23	08/01/23	
Ethylbenzene	ND	0.0250	1	07/31/23	08/01/23	
Toluene	ND	0.0250	1	07/31/23	08/01/23	
o-Xylene	ND	0.0250	1	07/31/23	08/01/23	
p,m-Xylene	ND	0.0500	1	07/31/23	08/01/23	
Total Xylenes	ND	0.0250	1	07/31/23	08/01/23	
Surrogate: 4-Bromochlorobenzene-PID		96.4 %	70-130	07/31/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: IY		Batch: 2331002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	08/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.4 %	70-130	07/31/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2331016
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	08/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	08/02/23	
Surrogate: n-Nonane		94.8 %	50-200	07/31/23	08/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2331010
Chloride	ND	200	10	07/31/23	08/02/23	



WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/22/2023 1:56:44PM

FS05 0.5-2'

E307176-05						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2331002
Benzene	ND	0.0250	1	07/31/23	08/01/23	
Ethylbenzene	ND	0.0250	1	07/31/23	08/01/23	
Toluene	ND	0.0250	1	07/31/23	08/01/23	
o-Xylene	ND	0.0250	1	07/31/23	08/01/23	
p,m-Xylene	ND	0.0500	1	07/31/23	08/01/23	
Total Xylenes	ND	0.0250	1	07/31/23	08/01/23	
Surrogate: 4-Bromochlorobenzene-PID		96.5 %	70-130	07/31/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2331002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	08/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.7 %	70-130	07/31/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2331016
Diesel Range Organics (C10-C28)	212	25.0	1	07/31/23	08/02/23	
Oil Range Organics (C28-C36)	146	50.0	1	07/31/23	08/02/23	
Surrogate: n-Nonane		98.6 %	50-200	07/31/23	08/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2331010
Chloride	381	200	10	07/31/23	08/02/23	



WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/22/2023 1:56:44PM

FS06 0.5-2' E307176-06

		E30/1/0-00				
Austra	Dk	Reporting		D	A a laa 1	Natar
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2331002
Benzene	ND	0.0250	1	07/31/23	08/01/23	
Ethylbenzene	ND	0.0250	1	07/31/23	08/01/23	
Toluene	ND	0.0250	1	07/31/23	08/01/23	
o-Xylene	ND	0.0250	1	07/31/23	08/01/23	
p,m-Xylene	ND	0.0500	1	07/31/23	08/01/23	
Total Xylenes	ND	0.0250	1	07/31/23	08/01/23	
Surrogate: 4-Bromochlorobenzene-PID		96.2 %	70-130	07/31/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2331002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	08/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.7 %	70-130	07/31/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2331016
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	08/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	08/02/23	
Surrogate: n-Nonane		96.7 %	50-200	07/31/23	08/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2331010
Chloride	ND	200	10	07/31/23	08/03/23	



RDU 12 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 8/22/2023 1:56:44PM **Volatile Organics by EPA 8021B** 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 (2331002-BLK1) Prepared: 07/31/23 Analyzed: 07/31/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.73 8.00 96.6 70-130 LCS (2331002-BS1) Prepared: 07/31/23 Analyzed: 07/31/23 5.19 5.00 104 70-130 Benzene 0.0250 Ethylbenzene 5.16 0.0250 5.00 103 70-130 5.23 0.0250 5.00 105 70-130 Toluene 103 o-Xylene 5.17 0.0250 5.00 70-130 10.5 10.0 105 70-130 0.0500 p.m-Xvlene 105 70-130 15.7 15.0 Total Xylenes 0.0250 8.00 98.4 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.87 Matrix Spike (2331002-MS1) Source: E307174-02 Prepared: 07/31/23 Analyzed: 07/31/23 5.03 0.0250 5.00 ND 54-133 Benzene ND 61-133 Ethylbenzene 4.99 0.0250 5.00 99.7 Toluene 5.06 0.0250 5.00 ND 101 61-130 4.99 ND 99.8 63-131 5.00 0.0250 o-Xylene p,m-Xylene 10.2 0.0500 10.0 ND 102 63-131 15.1 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.79 8.00 Matrix Spike Dup (2331002-MSD1) Source: E307174-02 Prepared: 07/31/23 Analyzed: 07/31/23 4.94 0.0250 5.00 ND 98.7 54-133 1.82 20 61-133 1.54 4.91 0.0250 5.00 ND 98.2 20 Ethylbenzene Toluene 4 98 0.0250 5.00 ND 99.5 61-130 1.55 20 4.93 5.00 ND 98.5 63-131 1.32 20 o-Xylene 0.0250 10.0 10.0 ND 100 63-131 1.31 20 p,m-Xylene 0.0500



14.9

7.89

0.0250

15.0

8.00

ND

99.7

98.6

63-131

70-130

1.32

20

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

WPX Energy - Carlsbad	Project Name:	RDU 12	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	·
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/22/2023 1:56:44PM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno				8/2	22/2023 1:56:44PM
	Non	halogenated		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
Blank (2331002-BLK1)							Prepared: 0'	7/31/23 Anal	yzed: 07/31/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			
LCS (2331002-BS2)							Prepared: 0'	7/31/23 Anal	yzed: 08/01/23
Gasoline Range Organics (C6-C10)	52.8	20.0	50.0		106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.6	70-130			
Matrix Spike (2331002-MS2)				Source:	E307174-0	02	Prepared: 0'	7/31/23 Anal	yzed: 07/31/23
Gasoline Range Organics (C6-C10)	54.7	20.0	50.0	ND	109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			
Matrix Spike Dup (2331002-MSD2)				Source:	E307174-0	02	Prepared: 0'	7/31/23 Anal	yzed: 07/31/23
Gasoline Range Organics (C6-C10)	55.1	20.0	50.0	ND	110	70-130	0.677	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.7	70-130			

WPX Energy - Carlsbad	Project Name:	RDU 12	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	·
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/22/2023 1:56:44PM

Carisbad NM, 88220		Project Manage	r: Gi	ibert Moreno					8/22/2023 1:30:44PN
	Nonha	logenated Or	ganics 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 (2331016-BLK1)							Prepared: 0	7/31/23 A	nalyzed: 08/02/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	50.8		50.0		102	50-200			
LCS (2331016-BS1)							Prepared: 0	7/31/23 A	nalyzed: 08/02/23
Diesel Range Organics (C10-C28)	280	25.0	250		112	38-132			
urrogate: n-Nonane	51.7		50.0		103	50-200			
Matrix Spike (2331016-MS1)				Source:	E307182-0	03	Prepared: 0	7/31/23 A	nalyzed: 08/02/23
Diesel Range Organics (C10-C28)	290	25.0	250	ND	116	38-132			
urrogate: n-Nonane	47.1		50.0		94.3	50-200			
Matrix Spike Dup (2331016-MSD1)				Source:	E307182-0	03	Prepared: 0	7/31/23 A	nalyzed: 08/02/23
Diesel Range Organics (C10-C28)	278	25.0	250	ND	111	38-132	4.15	20	
urrogate: n-Nonane	44.3		50.0		88.7	50-200			

Matrix Spike Dup (2331010-MSD1)

Chloride

QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number		DU 12 .058-0007					Reported:		
Carlsbad NM, 88220		Project Manager	r: G	ilbert Moreno				8/22/2023 1:56:44PM			
		Anions	by EPA 3	600.0/9056 <i>A</i>	A				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 (2331010-BLK1)							Prepared: 0	7/31/23 A1	nalyzed: 07/31/23		
Chloride	ND	20.0									
LCS (2331010-BS1)							Prepared: 0	7/31/23 Aı	nalyzed: 07/31/23		
Chloride	261	20.0	250		104	90-110					
Matrix Spike (2331010-MS1)				Source:	E307166-	01	Prepared: 0	7/31/23 Aı	nalyzed: 07/31/23		
Chloride	333	200	250	ND	133	80-120			M5		

250

200

Source: E307166-01

117

80-120

12.9

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.



Prepared: 07/31/23 Analyzed: 07/31/23

20

Definitions and Notes

ſ	WPX Energy - Carlsbad	Project Name:	RDU 12	
l	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
١	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	08/22/23 13:56

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.

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.



	-
	~
	0
r	5
f	0
	-
	=
	0
	2
	Ξ
	-
	$\overline{}$
	=
	$\overline{}$
	٠,
	~
	. 5
	₹'
	13
	\approx
	N
	Ü
	.9
	٠.
	_
	N
	N
	0
	Κ.
	蹈
	-
	$\overline{}$

Project Information Client: WPX Energy Permian LLC.		С.		Bill To		Lab U			b Us	e On	ily			TA	AT	EPA P	rogram	
roject: F					Attention: Jim Raley		Lab WO#				Job I	Number	1D	2D	3D	Standard	CWA	SDW
roject N	lanager: Gilbe	ert More	no		Address: 5315 Buena Vista Dr.	100	E:	30	רוו	0	010	58-0007				5 day TAT		
ddress:	13000 W Cou	nty Rd 1	00		City, State, Zip: Carlsbad, NM, 8	8220			-	-	Analy	sis and Meth	od	-				RCR
ity, State	e, Zip_Odessa	,TX, 797	65		Phone: 575-885-7502			by										
	32) 541-7719				Email: jim.raley@dvn.com	N=T]	ORO			- 1		1	1			State	
	von-team@e		com		WO: 21169911]	RO/	11	0		0.0	Σ		_	NM CO	UT AZ	TX
ollected	by: Edyte Ko	nan			Incident ID: nAPP2315142829	1000		0/0	/ 802	826	6010	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		Remarks	(
13:00	7/28/2023	S	1		FS01	1	0.5-2						Х					
13:10	7/28/2023	S	1		FS02	2	0.5-2						Х					
13:20	7/28/2023	S	1		FS03	3	0.5-2						Х					
13:30	7/28/2023	S	1		FS04	4	0.5-2						Х					
13:40	7/28/2023	S	1		FS05	5	0.5-2						Х					
13:50	7/28/2023	S	1		FS06	6	0.5-2						Х					
													-	-				
					hyp													
ddition	al Instruction	s:	l	<u> </u>														
				of this sample. I am av	ware that tampering with or intentionally mislab	elling the sample	ocation	٦,								eceived on ice the da tless than 6 °C on sub		25
	d by: (Signature		Date		Received by: (Signature) MCCCCC	Date 7.28	-23	Time /C	000		Rece	eived on ice:	/	ab U:	se On	ily		
elinquishe	d by: (Signature		Date 7-	2823 170	Received by: (Signature)	7.28		Time	730		T1		T2			<u>T3</u>		
Alch	d by: (Signature		Date		Refeived by: (Signature)	Date	12	Time	15	-	AVIC	Temp °C	4					



envirotech

Printed: 7/31/2023 8:57:41AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	07/31/23 0	7:15	Work Order ID:	E307176
Phone:	(539) 573-4018	Date Logged In:	07/28/23 1	5:48	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	08/04/23 1	7:00 (4 day TAT)		
Chain of	Custody (COC)					
	ne sample ID match the COC?		Yes			
	ne number of samples per sampling site location ma	tch the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: Cour	<u>ier</u>	
	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes			
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi	•	Yes		Commen	ts/Resolution
Sample T	urn Around Time (TAT)					
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C	<u>Cooler</u>					
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was the	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes,	were custody/security seals intact?		NA			
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes C			
Sample C		·	_			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers	?	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field Lab	pel					
20. Were	— field sample labels filled out with the minimum info	ormation:				
S	ample ID?		Yes			
	ate/Time Collected?		Yes	<u> </u>		
	ollectors name?		Yes			
	reservation		NT.			
	the COC or field labels indicate the samples were property of the company of the	reserved?	No			
	ample(s) correctly preserved? filteration required and/or requested for dissolved n	natolo?	NA No			
	•	ictais:	No			
	se Sample Matrix	0				
	the sample have more than one phase, i.e., multipha		No			
27. If yes,	does the COC specify which phase(s) is to be analy	yzed?	NA			
Subcontr	act Laboratory					
	amples required to get sent to a subcontract laborato	-	No			
29. Was a	subcontract laboratory specified by the client and it	f so who?	NA	Subcontract Lab: NA	A	
Client Ir	<u>istruction</u>					

Date

Project Information

9/5/2023 9:12:26 AM

Page 18 of 18

				IncidentID: nAPP2315				12829 \$ NAMIL 140 1						10	2520T8			8	Old De			G.1	40	
Client: W	PX Energy Pe	rmian LLC				Bill To				La	ab Us	e On	ly					TA	T	_		EPA	rogra	m
Project: F						Attention: Jim Raley		Lab	WO	#			Numl		_	1D	2D	3D	Sta	ındaı	rd	CWA	SDV	NA
	Nanager: Gilbe					Address: 5315 Buena Vista Dr.		IE 3	30	117	0	010.	58-	000	1				5 d	ay TA	AT			
Address:	13000 W Cou	inty Rd 10	00			City, State, Zip: Carlsbad, NM, 88220)					Analy	sis ar	d Me	thod								RC	RA
	e, Zip_Odessa		55			Phone: 575-885-7502			by															
	332) 541-7719			HADRIE I		Email: jim.raley@dvn.com			ORO	. 63												State		
	evon-team@e		com			WO: 21169911			RO/	-	0		300.0			NM		~		MM	co	UT AZ	XT Z	
Collected	l by: Edyte Ko	nan		IN EVINEED IN		Incident ID: nAPP2315142829		3	GRO/DRO/ORO by	802	by 8260	5010	-					¥						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number	1 1	TPH GR	BTEX by	VOC by	Metals 6010	Chloride			верос		GDOC			1	Remark	s	
13:00	7/28/2023	S	1			FS01	1	0.5-2	,							х								
13:10	7/28/2023	S	1		FS02			0.5-2	,							X								
13:20	7/28/2023	S	1			FS03	3	0.5-2	•							Х								
13:30	7/28/2023	S	1			FS04	4	0.5-2	1							X								
13:40	7/28/2023	S	1			FS05	5	0.5-2	1							Х								
13:50	7/28/2023	S	1			FS06	6	0.5-2	1							X								
						_HA																		
										4														
					Shirt Control					10000	-	10		10 to 100 to	MATERIA		1000000	NAME OF STREET	-	U-0122	2000	CONTRACTOR		-

Additional Instructions:	ch to vor	vecant	200250-0100	olds as Calla	v .>c .	(ESOL H	must ESC	10 0 0 5-2' P	er
Add tick wark in repo I, (field sampler), attest to the validity and auther date or time of collection is considered fraud and			tampering with or intentionally mislabelling	the sample location,				ed on ice the day they are sampled or han 6 °C on subsequent days.	SHOW
Relinquished by: (Signature)	Date 07/28/2023	Time 10:00	Received by; (Signature) McCllli Curroll	Date 7-23 /000	O Re	eceived on ice:	Lab Use Only		
Relinquished by: (Signature) McWlle Sung Ola	7-2823	Time 1700	Received by: (Signature) JA Grow MY90	7 · 28 · 23 173	30 T1		<u>T2</u>	<u>T3</u>	

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

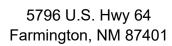
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this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



envirotech

Report to:
Gilbert Moreno





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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDU 12

Work Order: E307177

Job Number: 01058-0007

Received: 7/31/2023

Revision: 3

Report Reviewed By:

Walter Hinchman Laboratory Director 8/21/23

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: 8/21/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDU 12 Workorder: E307177

Date Received: 7/31/2023 7:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/31/2023 7:15:00AM, under the Project Name: RDU 12.

The analytical test results summarized in this report with the Project Name: RDU 12 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

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

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

West Texas Midland/Odessa Area Rayny Hagan Technical Representative

Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SW01 0-2'	5
SW02 0-2'	6
QC Summary Data	7
QC - Volatile Organics by EPA 8021B	7
QC - Nonhalogenated Organics by EPA 8015D - GRO	8
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	9
QC - Anions by EPA 300.0/9056A	10
Definitions and Notes	11
Chain of Custody etc.	12

Sample Summary

ſ	WPX Energy - Carlsbad	Project Name:	RDU 12	Reported:
١	5315 Buena Vista Dr	Project Number:	01058-0007	Reported.
١	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	08/21/23 15:16

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SW01 0-2'	E307177-01A Soil	07/28/23	07/31/23	Glass Jar, 2 oz.
SW02 0-2'	E307177-02A Soil	07/28/23	07/31/23	Glass Jar, 2 oz.



Sample Data

WPX Energy	- Carlsbad	Project Name:	RDU 12	
5315 Buena V	Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM	, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:16:45PM

SW01 0-2' E307177-01

		E30/17/-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: IY		Batch: 2331002
Benzene	ND	0.0250	1	07/31/23	08/01/23	
Ethylbenzene	ND	0.0250	1	07/31/23	08/01/23	
Toluene	ND	0.0250	1	07/31/23	08/01/23	
o-Xylene	ND	0.0250	1	07/31/23	08/01/23	
o,m-Xylene	ND	0.0500	1	07/31/23	08/01/23	
Total Xylenes	ND	0.0250	1	07/31/23	08/01/23	
Surrogate: 4-Bromochlorobenzene-PID		96.3 %	70-130	07/31/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: IY		Batch: 2331002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	08/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	07/31/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2331014
Diesel Range Organics (C10-C28)	ND	25.0	1	08/01/23	08/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/01/23	08/02/23	
Surrogate: n-Nonane		104 %	50-200	08/01/23	08/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2331011
Chloride	ND	200	10	07/31/23	07/31/23	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:16:45PM

SW02 0-2'

		E307177-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2331002
Benzene	ND	0.0250	1	07/31/23	08/01/23	
Ethylbenzene	ND	0.0250	1	07/31/23	08/01/23	
Toluene	ND	0.0250	1	07/31/23	08/01/23	
o-Xylene	ND	0.0250	1	07/31/23	08/01/23	
p,m-Xylene	ND	0.0500	1	07/31/23	08/01/23	
Total Xylenes	ND	0.0250	1	07/31/23	08/01/23	
Surrogate: 4-Bromochlorobenzene-PID		96.3 %	70-130	07/31/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2331002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	08/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.3 %	70-130	07/31/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2331014
Diesel Range Organics (C10-C28)	ND	25.0	1	08/01/23	08/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/01/23	08/02/23	
Surrogate: n-Nonane		105 %	50-200	08/01/23	08/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2331011
Chloride	ND	200	10	07/31/23	07/31/23	



				J					
WPX Energy - Carlsbad		Project Name:	R	DU 12					Reported:
5315 Buena Vista Dr		Project Number:	0	1058-0007					•
Carlsbad NM, 88220		Project Manager:	G	ilbert Moreno					8/21/2023 3:16:45PM
		Volatile O	rganics l	by EPA 802	1B				Analyst: IY
Analyte		Reporting	Spike	Source		Rec	222	RPD	
	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2331002-BLK1)							Prepared: 0	7/31/23	Analyzed: 07/31/23
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	7.73		8.00		96.6	70-130			
LCS (2331002-BS1)							Prepared: 0	7/31/23	Analyzed: 07/31/23
Benzene	5.19	0.0250	5.00		104	70-130			
Ethylbenzene	5.16	0.0250	5.00		103	70-130			
Toluene	5.23	0.0250	5.00		105	70-130			
o-Xylene	5.17	0.0250	5.00		103	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.7	0.0250	15.0		105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.4	70-130			
Matrix Spike (2331002-MS1)				Source: 1	E307174-	02	Prepared: 0	7/31/23	Analyzed: 07/31/23
Benzene	5.03	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.99	0.0250	5.00	ND	99.7	61-133			
Toluene	5.06	0.0250	5.00	ND	101	61-130			
o-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	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.4	70-130			
Matrix Spike Dup (2331002-MSD1)				Source: 1	E307174-	02	Prepared: 0	7/31/23	Analyzed: 07/31/23
Benzene	4.94	0.0250	5.00	ND	98.7	54-133	1.82	20	
Ethylbenzene	4.91	0.0250	5.00	ND	98.2	61-133	1.54	20	
Toluene	4.98	0.0250	5.00	ND	99.5	61-130	1.55	20	
o-Xylene	4.93	0.0250	5.00	ND	98.5	63-131	1.32	20	
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	1.31	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.7	63-131	1.32	20	
Surrogate: 4-Bromochlorobenzene-PID	7.89		8.00		98.6	70-130			

WPX Energy - Carlsbad	Project Name:	RDU 12	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:16:45PM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno				8/2	1/2023 3:16:45PM
	Non	halogenated	Organics l	by EPA 80	15D - 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
Blank (2331002-BLK1)							Prepared: 0'	7/31/23 Anal	yzed: 07/31/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			
LCS (2331002-BS2)							Prepared: 0'	7/31/23 Anal	yzed: 08/01/23
Gasoline Range Organics (C6-C10)	52.8	20.0	50.0		106	70-130			
urrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.6	70-130			
Matrix Spike (2331002-MS2)				Source:	E307174-0	02	Prepared: 0'	7/31/23 Anal	yzed: 07/31/23
Gasoline Range Organics (C6-C10)	54.7	20.0	50.0	ND	109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			
Matrix Spike Dup (2331002-MSD2)				Source:	E307174-0	02	Prepared: 0'	7/31/23 Anal	yzed: 07/31/23
Gasoline Range Organics (C6-C10)	55.1	20.0	50.0	ND	110	70-130	0.677	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.7	70-130			

WPX Energy - Carlsbad	Project Name:	RDU 12	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	·
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:16:45PM

Carlsbad NM, 88220		Project Manage	r: Gı	lbert Moreno				8/	21/2023 3:16:45PN
	Nonha	logenated Or	ganics by l	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 (2331014-BLK1)							Prepared: 0	8/01/23 Ana	alyzed: 08/01/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	58.5		50.0		117	50-200			
LCS (2331014-BS1)							Prepared: 0	8/01/23 Ana	alyzed: 08/01/23
Diesel Range Organics (C10-C28)	260	25.0	250		104	38-132			
urrogate: n-Nonane	51.0		50.0		102	50-200			
Matrix Spike (2331014-MS1)				Source:	E307166-	01	Prepared: 0	8/01/23 Ana	alyzed: 08/01/23
Diesel Range Organics (C10-C28)	260	25.0	250	ND	104	38-132			
urrogate: n-Nonane	48.2		50.0		96.5	50-200			
Matrix Spike Dup (2331014-MSD1)				Source:	E307166-	01	Prepared: 0	8/01/23 Ana	alyzed: 08/01/23
Diesel Range Organics (C10-C28)	254	25.0	250	ND	101	38-132	2.66	20	
'urrogate: n-Nonane	49.9		50.0		99.8	50-200			

WPX Energy - Carlsbad		Project Name:		OU 12					Reported:
5315 Buena Vista Dr		Project Number:	01	058-0007					
Carlsbad NM, 88220		Project Manager	: Gi	lbert Moreno					8/21/2023 3:16:45PM
		Anions	by EPA 3	00.0/9056	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 (2331011-BLK1)							Prepared: 0	7/31/23 A	nalyzed: 07/31/23
Chloride	ND	20.0							
LCS (2331011-BS1)							Prepared: 0	7/31/23 A	nalyzed: 07/31/23
Chloride	264	20.0	250		105	90-110			
Matrix Spike (2331011-MS1)				Source:	E307177-0	01	Prepared: 0	7/31/23 A	nalyzed: 07/31/23
Chloride	358	200	250	ND	143	80-120			M5
Matrix Spike Dup (2331011-MSD1)				Source:	E307177-0)1	Prepared: 0	7/31/23 A	nalyzed: 07/31/23
Chloride	282	200	250	ND	113	80-120	23.7	20	R2

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

ſ	WPX Energy - Carlsbad	Project Name:	RDU 12	
١	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
١	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	08/21/23 15:16

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.

R2 The RPD exceeded the acceptance limit.

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: W	PX Energy Pe	rmian II (Bill To		2111111111	1500	1 - 1	Use	On	l.,		1		TA	т	FDAD	40 GHO 151
roject: F		IIIIaii LLC			Attention: Jim Raley		Lab	WO#	Lat			ly Numbe		10	2D	3D	Standard	CWA	rogram SDWA
	lanager: Gilbe	ert Morer	10		Address: 5315 Buena Vista Dr.		Lab	307	117	7/	hla	58-0	200	7 10	20	30	5 day TAT	CVVA	SDWA
	13000 W Cou				City, State, Zip: Carlsbad, NM, 8	38220			-11			sis and					J day 1A1		RCRA
	e, Zip_Odessa				Phone: 575-885-7502			λq			T		T	T	T				Henri
	332) 541-7719				Email: jim.raley@dvn.com	12		ORO		1								State	
mail: De	von-team@e	techenv.	com		WO: 21169911	E A Soll		RO/C	=	0		0.0		ΣN			NM CO	UT AZ	TX
Collected	by: Edyte Ko	nan			Incident ID: nAPP2315142829	- 198	Ŧ	0/0	/ 802	826	6010	a 300				¥			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 802.	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC		Remarks	
14:00	7/28/2023	S	1		SW01	1	0-2'							Х					
14:10	7/28/2023	S	1		SW02	2	0-2'							Х					
													_						
								+	+					T	T				
										1	1		+	t	H				
					Huth							_		\vdash					
									+	+	7	-		-					
									+	_	-	-		-					
									-			- 1							
									+	-	+	-	-	+-	\vdash	-			
Addition	al Instruction	is:																	
					aware that tampering with or intentionally mislal	belling the sample lo	ocation	,									eceived on ice the day less than 6 °C on sub-		pled or
AND DESCRIPTION OF THE PARTY OF	of collection is collection is collection is		Date	pe grounds for legal a	Received by: (Signature)	Date		Time		=		pnew II			53.			quent days.	
-Ky	4-		07/2	8/2023 10:00	Michelle Censel	6 7280	23	100	CC	F	Rece	ived o	n ice:		ab Us		iy		
Mid	ed by: (Signature	wals	_ 7	28:23 17	Received by: (Signature)	7.28	.23	17	30		Г1			<u>T2</u>			<u>T3</u>		
Relinquish	ed by: (Signature	450	7.	29.23 Z	100 Received by Signature Man	- 7/31/2	23	7.1	15	-	AVG	Temp	°c_	1					
	rix: S - Soil, Sd - So	lid Ca Clude	ιο Δ - Δαμοί	our O Othor		Containe	T	- 1	-						THE REAL PROPERTY.				



enviroteche analysis of the above

envirotech Inc.

Printed: 7/31/2023 9:01:02AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	07/31/23 0	7:15	Work Order ID	D: E307177
Phone:	(539) 573-4018	Date Logged In:	07/28/23 1	5:52	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	08/04/23 1	7:00 (4 day TAT)		
Chain of	Custody (COC)					
	ne sample ID match the COC?		Yes			
	e number of samples per sampling site location man	tch the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: Cou	<u>ırier</u>	
4. Was the	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes			
5. Were al	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi	•	Yes		<u>Comm</u>	ents/Resolution
Sample T	urn Around Time (TAT)					
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C	<u>Cooler</u>					
7. Was a s	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was the	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes,	were custody/security seals intact?		NA			
12. Was the	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes			
Sample C		· • • · · · · · <u>-</u>	_			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers'	7	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field Lab	· · ·	icis conceica.	105			
	field sample labels filled out with the minimum info	ormation:				
	ample ID?	mation.	Yes			
	ate/Time Collected?		Yes			
C	ollectors name?		Yes			
Sample P	reservation_					
21. Does	the COC or field labels indicate the samples were pr	reserved?	No			
22. Are sa	ample(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved n	netals?	No			
Multipha	se Sample Matrix					
26. Does	the sample have more than one phase, i.e., multipha	se?	No			
27. If yes,	does the COC specify which phase(s) is to be analy	yzed?	NA			
Subcontr	act Laboratory					
-	imples required to get sent to a subcontract laborato	rv?	No			
	subcontract laboratory specified by the client and it	•		Subcontract Lab: N	NA.	
				Successifiant Eur. 1	***	
Chent In	<u>istruction</u>					

Date

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

Project Information

Page Ogram SDWA RCRA	rei	Received by 078 0-17-06 AM
	Page 14 of 14	
led or		

						In	cident ID: nAPP	2315	142	28	29	3	n	MH	AP:	14	0-	13	75	5	18	Aund .	cer G
	PX Energy Pe	rmian LLC	2.				Bill To				La	ab Us	e Or	ily					TA	AT.	New York		rogram
Project: F						Att	ention: Jim Raley		Lab	WO	†		Job	Num	ber		1D	2D	3D	St	andard	CWA	SDWA
	Manager: Gilb					Add	dress: 5315 Buena Vista Dr.		TE3	30	71-	7	010	58	-000	7				5	day TAT		
Address:	13000 W Cou	inty Rd 10	00			City	y, State, Zip: Carlsbad, NM, 882	20				The state of the s			nd Me						NEW STREET		RCRA
City, Stat	e, Zip_Odessa	a,TX, 7976	35			Pho	one: 575-885-7502			à			FIR										
	332) 541-7719					Em	ail: jim.raley@dvn.com			ORC												State	
Email: De	evon-team@e	techenv.	com			WC	0: 21169911			30/0		_		0.0		4.3	NM				NM CO	UT AZ	TX
Collected	l by: Edyte Ko	nan		YE KIND		Ine	dent ID: nAPP2315142829-		13	Id/c	802	978	2010	300					¥				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample I	D			Lab Numbe	Depth(ft.	TPH GRO/DRO/ORO by 8015	BTEX by 802.	VOC by 8260	Metals 6010	Chloride 300.0			верос		GDOC			Remarks	
14:00	7/28/2023	S	1				SW01	1	0-2								X						
14:10	7/28/2023	S	1				SW02	2	0-2								Х						
															-	-							
						T N			-	-													
						150	4							3									
											7.5												
					N. V.V.																		
Addition	al Instruction	is:																					
I, (field sam)	pler), attest to the	validity and a	authenticit	of this samp	le. I am a	ware that	tampering with or intentionally mislabellin	g the sample	location	٦,			Sample	es requi	ring ther	mal pr	eservat	ion mu	st be re	eceived	on ice the da	y they are san	pled or
date or time	of collection is co	nsidered frau	d and may	be grounds fo	or legal ac	tion.	Sampled by:						receive	d packe	d in ice	at an a	vg tem	p above	e 0 but	less th	an 6 °C on sub	sequent days.	
Relinquish	ed by: (Signature	*)	Dat 07/	e 28/2023	Time 10:00	Lucian at 1 to one of the control of																	
Relinquish	ed by: (Signature Ull (4	" rals	_ Dat	- 28:23	Time	C	Received by: (Signature)	Date 7.28		Time	73,	2	T1				12				T3		
Relinquished by: (Signature) Date 7.29.23 2400 Regived by: Signature Date 7/3				Date/ 7/2/	/22	Time 7	15	-	AVG	Tem	n°C	4											
011	rix: S - Soil, Sd - So				10-1	<u> </u>	man , and	Contain	iner Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA														
						other a	rrangements are made. Hazardous sa														for the and	lucis of the	ahove
samples is	applicable only t	to those san	nples rece	ived by the I	laborato	y with t	his COC. The liability of the laboratory	is limited to	the an	nount	paid f	or on	the re	eport.			-npu			port	. or the alle	., Just of the	20016



envirotech 88 of 216

APPENDIX G

NMOCD Notifications

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



Erick Herrera

From: Hamlet, Robert, EMNRD < Robert.Hamlet@emnrd.nm.gov>

Sent: Thursday, June 15, 2023 8:35 AM

To: Raley, Jim

Cc: Devon-Team; Bratcher, Michael, EMNRD; Harimon, Jocelyn, EMNRD

Subject: (Extension Approval) - RDU 12 Extension Requests - Incident Numbers nHMP1407235518 and

nAPP2315142829

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

RE: Incident #NHMP1407325518 and NAPP2315142829

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 1:57 PM

To: Hamlet, Robert, EMNRD < Robert. Hamlet@emnrd.nm.gov>

Cc: Devon-Team < Devon-Team@etechenv.com >

Subject: [EXTERNAL] RDU 12 Extension Requests - Incident Numbers nHMP1407235518 and nAPP2315142829

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 reports required in 19.15.29.12.B.(1) NMAC at the Ross Draw #012 (Site).

Two crude oil and produced water releases were discovered between March 5, 2014, and January 11, 2017, and subsequently assigned Incident Number nHMP1407235518 and nAB1702749185, respectively. NMOCD recently denied a closure report associated with both inadvertent releases on March 29, 2023, due to inadequate depth to groundwater data. As a result, NMOCD set a new due date for a subsequent report for June 30, 2023. Currently, there is new soil boring data to support the depth to groundwater determination at the Site. However, an additional inadvertent release of release of produced water occurred on May 15, 2023 (nAPP2315142829) and overlapped the same earthen

containment impacted by nHMP1407235518, therefore additional investigation is warranted to determine the presence or absence of impacts. Incident Number nAB1702749185 occurred in a separate location, therefore, a closure addendum will be submitted to address the denial.

To provide enough time for additional planning, remediation activities and subsequent corrective action report, WPX requests an extension of the deadline for the two overlapping releases associated with Incident Number nHMP1407235518 and nAPP2315142829 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>

Sent: Friday, June 16, 2023 3:37 PM

To: Erick Herrera

Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD

Subject: RE: [EXTERNAL] WPX Site Sampling Activity Update (6/20 - 6/23)

Erick,

Thank you for the notification. Please 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



From: Erick Herrera <erick@etechenv.com> Sent: Thursday, June 15, 2023 3:14 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 (6/20 - 6/23)

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

WPX anticipates conducting confirmation soil sampling activities at the following sites between June 20 – June 23, 2023:

Site Name: North Brushy PW Line

Incident Numbers: nAPP2231126594 & nAPP2312845934

Site Name: RDX 9#004

Incident Number: nAB1803254347

API: 30-015-40180

Site Name: RDX Federal COM 28 #009H Incident Number: nAB1632648516

API: 30-015-43294

Site Name: Holly A Federal #006

Incident Number: nAPP2116548791

API: 30-015-25331

Site Name: Ross Draw #012

Incident Numbers: nHMP1407235518 and nAPP2315142829

API: 30-015-24793

Thank you,

Erick Herrera Staff Geologist



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

Erick Herrera

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Monday, July 24, 2023 2:27 PM

To: Erick Herrera

Cc: Bratcher, Michael, EMNRD; Maxwell, Ashley, EMNRD; Hamlet, Robert, EMNRD

Subject: RE: [EXTERNAL] WPX Site Sampling Activity Update (7/27 - 7/28)

You don't often get email from shelly.wells@emnrd.nm.gov. Learn why this is important

Good afternoon 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.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced Administrative Permitting Program EMNRD-Oil Conservation Division 1220 S. St. Francis Drive|Santa Fe, NM 87505 (505)469-7520|Shelly.Wells@emnrd.nm.govhttp://www.emnrd.state.nm.us/OCD/

From: Erick Herrera <erick@etechenv.com> Sent: Monday, July 24, 2023 9:30 AM

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 (7/27 - 7/28)

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

Good morning,

WPX anticipates conducting confirmation soil sampling activities at the following site between July 27 through July 28, 2023:

Proposed Date: July 27, 2023 & July 28, 2023,

Proposed Timeframe: 0800 - 1700 hrs.

Site Name: Ross Draw #012

Incident Numbers: nHMP1407325518 (2RP-2211) & nAPP2315142829

API: 30-015-24793

Thank you,

Erick Herrera

Staff Geologist



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

APPENDIX H

Original Closure Request

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





March 26, 2020 Mike Bratcher NMOCD District 2 811 South First Street Artesia, NM 88210

Re: Ross Draw Unit #12 Release Closure Request (2RP-2211 & 2RP-4095)

Mr. Bratcher,

The attached report summarizes the sampling activities at the Ross Draw Unit (RDU) #12 well pad. WPX requests no further action be taken until the reclamation of the Pad. Please contact me with any questions or concerns.

Best regards,

Lynda Laumbach

Environmental Specialist

CC: Robert Hamlet, NMOCD Victoria Venegas, NMOCD

Attachments:

Attachment 01 Site Characterization Report & Soil Closure Report

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 Fc, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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



Form C-141 Revised August 8, 2011

Submit 1 Copy to appropriate District Office in NMOCD ARTES and with 19.15.29 NMAC.

Release Notification and Corrective Action

Release Notification and Corrective Action														
nHMP141	<u>07325</u>	37/8		246289		OPERAT	ΓOR	🔀 Initia	l Report	Final Repo	ort			
				& PRODUCTIO		Contact HEATHER BREHM								
Address 2	10 PARK	AVE, STE	900, OI	<u>(C, OK 73102</u>			lo. 405-996-57	<u>′69</u>			_			
Facility Nar	ne ROSS	DRAW 12		·	<u> </u>	acility Typ	e POW				\sqcup			
Surface Ow	ner			Mineral O	wner			API No.	. 30-015-2	4793				
				LOCA	TION	OF REI	LEASE							
Unit Letter	Section	Township	Range	Peet from the	North/S	South Line	Feet from the	East/West Line	County					
Α	33	26S	30E	467'	NO	RTH	660'	EAST	EDD	Y				
	LatitudeLongitude													
NATURE OF RELEASE														
	Type of Release OIL/WATER Volume of Release 15 BBLS Volume Recovered 0 BBLS													
Source of Re Was Immedia			JMP			Date and F If YES, To	lour of Occurrence	 Date and I 14 UKN TIME 	Hour of Disc	covery DISCOVERED	_			
Was minicula	and Profile C		Yes 🛚	No 🗌 Not Re	quired	11 323, 10	WHORE: Z-Z5	- 14 UNIV TIME		4 @ 9:00 AM				
By Whom?		M. BALL	ET, BLI	A		Date and I								
Was a Watero	course Reac		Ves IX	1 No			olume Impacting th	ne Watercourse.						
☐ Yes ☒ No N/A														
If a Watercourse was Impacted, Describe Fully.*														
Describe Cau						_			-					
WATER	TANK RA	N OVER, T	RANSF	ER PUMP OVE	ERLOA	νD:								
Describe Are	a Affected a	and Cleanup /	Action Tal	œn.*		····					_			
SPILL W	AS CONT	AINED IN	DIRT C	ONTAINMENT;	DYKE	:								
Lhereby certi	fu that the i	nformation a	um akan	is true and compl	ata ta th	a hast of my	leanedadan and	nderstand that purs	ont to NIM	OCD rules and				
regulations a	ll operators	are required t	o report a	e is true and compt nd/or file certain re	ete to in dease no	e best of my	knowseage and ui	nderstand that purs tive actions for rele	uant to Nivi	may endanger				
public health	or the envir	ronment. The	acceptan	cc of a C-141 repo	rt by the	NMOCD m	arked as "Final Re	port" does not reli	eve the oper	rator of liability				
should their of	operations h	ave failed to a	idequately	investigate and re	emediate	contaminati	on that pose a thre	eat to ground water esponsibility for co	, surface wa	ter, human health				
federal, state,	or local lav	vs and/or regu	ilations.	mance of a C-141 f	eport ac	ses not renev	e are operator or r	espensionity for ce	miphance w	any ones				
	,		•				OIL CONS	SERVATION	DIVISIO	<u>)N</u>				
Signature:	Hua	he / Log	lem					. /	\circ					
Printed Name	: Heathe	er Brehm			,	Approved by	Environmental Sp	pecialist: H	Ven					
Title:	Regula	tory Analys	st		,	Approval Da	te: 3-14-16	1 Expiration I	Date: N	A				
E-mail Addre	ss: hbrel	hm@rkixp.c	om		(Conditions o	f Approval:	,	Attached	П				
Date: 3/	/06/2014		Phone	405-996-5769	. ' +	cemediation	per OCD Rule (k Guidelinėc &		_				
Attach Addi	tional Shee	ets If Necess		· <u> </u>	— lik	e approvat	oy BLM. <u>SUBM</u> I	T REMEDIATION	1 ,	2RP 2211	ī			
						PRO	<u>OSAL NO LATER</u>	<u>THAN:</u>	(art coll				
	4-14-14													

		Page 99 of 216
Incident ID	2RP-2211	
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?	>100 (ft bgs)
Did this release impact groundwater or surface water?	Yes X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes X 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 X 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 X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes X No
Are the lateral extents of the release overlying a subsurface mine?	Yes X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes X No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes X No
Did the release impact areas not on an exploration, development, production, or storage site?	Yes X 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.

- X Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- X Field data
- X Data table of soil contaminant concentration data
- X Depth to water determination
- X Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- X Boring or excavation logs
- X 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: 9/5/2023 9:12:26 AM State of New Mexico
Page 4 Oil Conservation Division

	Page 100 of 21	6
Incident ID	2RP-2211	
District RP		
Facility ID		

Application ID

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. ____ Title: __ Environmental Specialist Lynda Laumbach Printed Name: Date: 03/26/2020 Signature: Telephone: (575)725-1647 email: Lynda.Laumbach@wpxenergy.com **OCD Only** Received by: Date:

Page 101 of 216

Incident ID	2RP-2211
District RP	
Facility ID	
Application ID	

Closure

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

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

Site Characterization Report & Soil Closure Request

WPX Energy, Inc. RDU 12

Eddy County, New Mexico
Unit Letter A, Section 33, Township 26 South, Range 30 East
Latitude 32.004760 North, Longitude 103.879775 West
NMOCD Reference No. 2RP-2211 & 2RP-4095

Prepared By:

Etech Environmental & Safety Solutions, Inc.

13000 W County Road 100 Odessa, TX 79765

Joseph S. Hernandez - Project Manager Intentional Blank

Environmental & Safety Solutions, Inc.

Midland • San Antonio • Lubbock • Lovington • Lafayette

TABLE OF CONTENTS

	Section
PROJECT INFORMATION (2RP-2211 & 2RP-4095).	1.0 & 1.0A
SITE CHARACTERIZATION (2RP-2211 & 2RP-4095)	2.0 & 2.0A
CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE	3.0
REMEDIATION ACTIVITIES SUMMARY	4.0
RESTORATION, RECLAMATION AND RE-VEGETATION PLAN	5.0
SOIL CLOSURE REQUEST	6 .0
LIMITATIONS	7 .0
DISTRIBUTION	8.0

FIGURES

Figure 1 - Topographic Map

Figure 2 - Aerial Proximity Map

Figure 3 (2RP-2211) & 3A (2RP-4095) - Site & Sample Location Map

TABLES

Table 1 - Concentrations of BTEX, TPH and/or Chloride in Soil (2RP-2211)

Table 1 - Concentrations of BTEX, TPH and/or Chloride in Soil (2RP-4095)

APPENDICES

Appendix A - Depth to Groundwater Information

Appendix B - Field Data and Soil Profile Logs

Appendix C - Laboratory Analytical Reports

Appendix D - Photographic Log

1.0 PROJECT INFORMATION (2RP-2211)

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy, Inc, has prepared this Site Characterization Report and Soil Closure Report for the Release Site Known as the Ross Draw 12. Details of the release are summarized below:

		Locatio	on of Release Sou	irce	
atitude <u>:</u>	32.0	04760	Longitud		-103.8797758
		Provided G	PS are in WGS84	format.	
ite Name:		DRAW 12	Site Type:		Wellhead
Date Release Disc	covered:	2/25/2014	API # (if app	licable):	30-015-24793
Unit Letter	Section	Township	Range	Count	v
A	33	26S	30E	Eddy	
urface Owner:	State X	Federal Tribal	Private (Na	ame	
urrace Owner.	State A				
		Nature a	nd Volume of Re	elease	
X Crude Oil					
		e Released (bbls) 15		Volume 1	Recovered (bbls) 0
X Produced W	ater				
		oncentration of disso		ne Y	es No X N/A
	produce	ed water > 10,000 mg	g/L <i>?</i> —————		
Condensate	Volum	e Released (bbls)		Volume 1	Recovered (bbls)
Natural Gas	Volum	e Released (Mcf)		Volume 1	Recovered (Mcf)
Other (descr	ribe) Volume	e/Weight Released		Volume/V	Weight Recovered
Cause of Release	e:				
This release was	caused by a tr	ansfer pump overloa	d, resulting in the	water tank to	overflow.
		Ir	nitial Response		
X The source of	of the release h	as been stopped.			
X The impacted	d area has beei	n secured to protect h	numan health and	the environme	ent.
X Release mat	erials have bee	en contained via the u	use of berms or di	kes, absorben	t pad, or other containment devic
		rable materials have			

Previously submitted portions of the NMOCD Form C-141 are available on the NMOCD Imaging System.

1.0A PROJECT INFORMATION (2RP-4095)

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy, Inc, has prepared this Site Characterization Report and Soil Closure Report for the Release Site Known as the RDU 12. Details of the release are summarized below:

Location of Release Source				
Latitude:	32	004760	Longitude:	-103.8797758
		Provided	d GPS are in "Y I U	6'hqto cv0
Site Name:		RDU 12	Site Type:	Wellhead
Date Release Disc	covered:	1/11/2017	API # (if appli	cable): 30-015-24793
Unit Letter	Section	Township	Range	County
A	33	26S	30E	Eddy
Surface Owner:	State 2	Federal Tribal	Private (Nan	ne)
		Nature ar	nd Volume of Rele	ease
X Crude Oil X Produced W		me Released (bbls) 12		Volume Recovered (bbls) 4.5
		concentration of dissol ced water > 10,000 mg		Yes No X N/A
Condensate	Volu	me Released (bbls)		Volume Recovered (bbls)
Natural Gas Volume Released (Mcf) Volume Recovered (Mcf)			Volume Recovered (Mcf)	
Other (describe) Volume/Weight Released Volume/Weight Recovered			Volume/Weight Recovered	
This release was	Cause of Release: This release was caused by human error; stuffing box failure. The spill migrated west of the pad, entered a dry drainage and migrated for about 100 yards.			
Initial Response				
X The source of	of the releas	e has been stopped.		
X The impacted	d area has b	en secured to protect h	uman health and th	e environment.
X Release mat	X Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices			
X All free liqui	X All free liquids and recoverable materials have been removed and managed appropriately.			

Previously submitted portions of the NMOCD Form C-141 are available on the NMOCD Imaging System.

2.0 SITE CHARACTERIZATION (2RP-2211)

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	>100)' bgs
Did the release impact groundwater or surface water?	Yes	X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes	X 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	X No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	Yes	X 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	Yes	X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes	X No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes	X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes	X No
Are the lateral extents of the release overlying a subsurface mine?	Yes	X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes	X No
Are the lateral extents of the release within a 100-year floodplain?	Yes	X No
Did the release impact areas not on an exploration, development, production or storage site?	Yes	X No

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figure 2.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater and NMOCD Siting Criteria, the NMOCD Closure Criteria for the Site is as follows:

Closure Criteria for Soil Impacted by a Release					
Probable Depth to Groundwater	Constituent	Method	Limit		
	Chloride	EPA 300.0 or SM4500 Cl B	20,000 mg/kg		
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2,500 mg/kg		
>100' bgs	DRO + GRO	EPA SW-846 Method 8015M	1,000 mg/kg		
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg		
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg		

2.0A SITE CHARACTERIZATION (2RP-4095)

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	>100' bg	gs
Did the release impact groundwater or surface water?	Yes Z	X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes Z	X 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 Z	X No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	Yes 2	X 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	Yes Z	X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes Z	X No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes Z	X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes Z	X No
Are the lateral extents of the release overlying a subsurface mine?	Yes Z	X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes Z	X No
Are the lateral extents of the release within a 100-year floodplain?	Yes Z	X No
Did the release impact areas not on an exploration, development, production or storage site?	X Yes	No

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figure 2.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater and NMOCD Siting Criteria, the NMOCD Closure Criteria for the Site is as follows:

Closure Criteria for Soil Impacted by a Release					
Probable Depth to Groundwater	Constituent	Method	Limit		
	Chloride	EPA 300.0 or SM4500 Cl B	20,000 mg/kg		
>100' bgs	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2,500 mg/kg		
	DRO + GRO	EPA SW-846 Method 8015M	1,000 mg/kg		
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg		
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg		

4.0 REMEDIATION ACTIVITIES SUMMARY

On January 15, 2020, Etech personnel conducted initial site assessments for two (2) releases, 2RP-2211 and 2RP-4095, that occurred at the RDU 12 Site in Eddy County, NM. The assessments consisted of generating a footprint via GPS receiver of the aforementioned releases and photo documentation of the current Site conditions. Based on visual observation, approximately eight hundred and nineteen (819) square feet of surface area was impacted from the release assigned 2RP-2211; approximately five thousand and fifty-three (5,053) square feet of surface area was impacted from the release assigned 2RP-4095. Between January 22, 2020 and February 25, 2020, a series of test trenches and/or hand-augered soil bores were advanced within the release footprints in an effort to define the vertical and horizontal extent of impacted soil. Field soil samples were collected and field-screened for the presence of Volatile Organic Compounds utilizing a Photoionization Detector (PID) and concentrations of chloride utilizing a Hach Quantab ® chloride test kit. A "Site & Sample Location Map" is provided as Figure 3 (2RP-2211) and Figure 3A (2RP-4095). Field data and soil profile logs, if applicable, are provided as Appendix B.

Based on field observations and field test data associated with **2RP-2011**, **thirteen (13)** delineation soil samples (TT1@2', TT1@4', TT2@2', TT2@4', AH1@2', AH1@6', AH2@2', AH2@4', AH3@2', AH3@4', AH4@2' and AH4@4) were relinquished to an accredited laboratory for analysis of BTEX, TPH and Chloride concentrations. Laboratory analytical results indicated soil was not affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard. A "Soil Chemistry Table" is provided as Table 1. Laboratory Analytical Reports are provided in Appendix C.

Based on field observations and field test data associated with **2RP-4095**, **twenty (20)** delineation soil samples (TT1@2', TT1@12', TT2@2', TT2@4', TT3@2', TT3@4', AH1@2', AH1@4', AH2@2', AH2@4', AH3@2', AH3@4', AH4@2', AH4@4', AH5@2', AH5@4', AH6@2', AH6@4', AH7@2' and AH7@4') were relinquished to an accredited laboratory for analysis of BTEX, TPH and Chloride concentrations. Laboratory analytical results indicated soil was not affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard. A "Soil Chemistry Table" is provided as Table 1. Laboratory Analytical Reports are provided in Appendix C.

Based on laboratory analytical data, soil within the affected areas associated with 2RP-2211 and 2RP-4095 yielded concentrations below the NMOCD Closure Criteria and/or NMOCD Reclamation Standard, therefore the soil has not been excavated from the affected areas.

5.0 RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

Laboratory analytical results from soil samples collected during delineation events indicated remediation was not required, therefore the affected area was left in-situ and not altered. Vegetation within the affected area will be monitored and may be reseeded with an agency-approved seed mixture free of noxious weeds during the first favorable growing season following closure of the site, if necessary.

6.0 SOIL CLOSURE REQUEST

Delineation activities were conducted in accordance with applicable NMOCD Regulations. Laboratory analytical from the collected soil samples indicated soil in the affected area(s) was not impacted above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH and chloride was below the NMOCD Closure Criteria and/or NMOCD Reclamation Standard in each of the submitted soil samples.

Based on laboratory analytical results and field activities conducted to date, Etech recommends WPX Energy, Inc. provide copies of this Remediation Summary and Soil Closure Request to the appropriate agencies and request closure be granted to the RDU 12 Site (2RP-2211 and 2RP-4095).

7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this Site Characterization Report and Soil Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents reference in the report and on oral statements made by certain individuals. Basis has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of WPX Energy, Inc. Use of the information contained in this report is prohibited within the consent of Etech and/or WPX Energy, Inc.

8.0 DISTRIBUTION

WPX Energy, Inc. 5315 Buena Vista Dr. Carlsbad, NM 88220

New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 2 811 S. First Street Artesia, NM 88210

(Electronic Submission)

Figure 1 Topographic Map

Figure 2 Aerial Proximity Map

Figure 3 Site and Sample Location Map



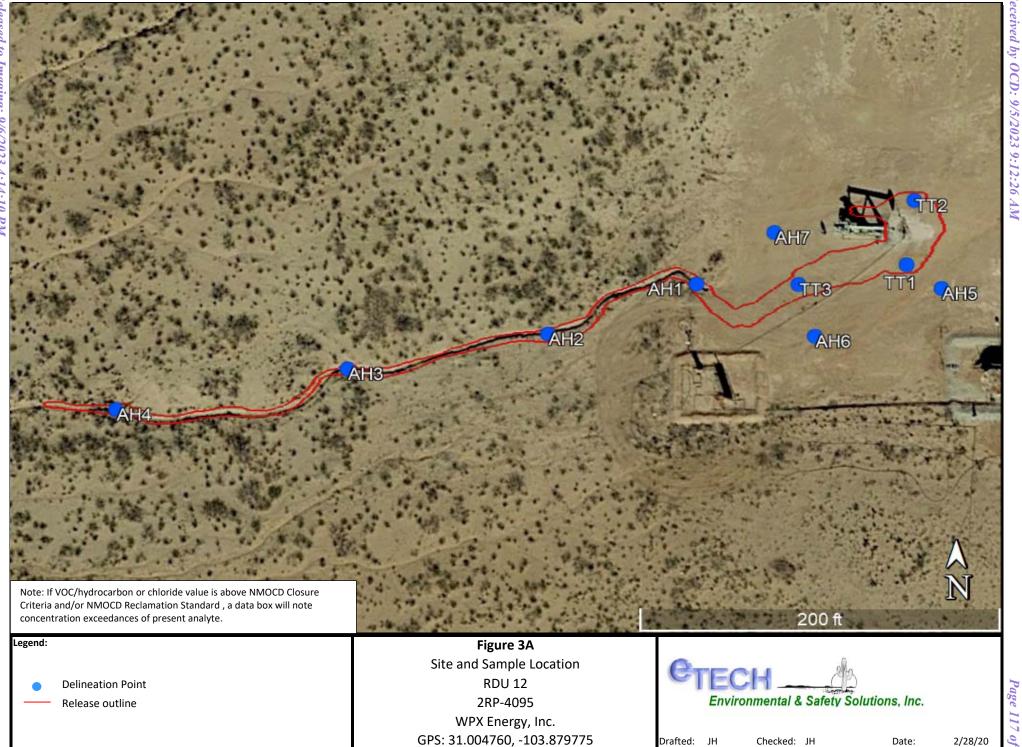


Table 1 Concentrations of BTEX, TPH, and/or Chloride in Soil

TABLE 1 CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL WPX Energy, Inc. ROSS DRAW 12 2RP-2211

	2111 - 2211											
				SW 846	8026B		SW 846 8015M Ext.					
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	$\begin{array}{c} \text{GRO + DRO} \\ \text{C}_6\text{-C}_{28} \\ \text{(mg/kg)} \end{array}$	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)	
TT 1	1/22/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND	
TT 1	1/22/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND	
TT 2	1/22/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND	
TT 2	1/22/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND	
AH 1	1/23/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	5,310	
AH 1	1/23/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	1,970	
AH 1	2/25/2020	6'	In-situ	ND	ND	ND	ND	ND	ND	ND	153	
AH 2	2/25/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	166	
AH 2	2/25/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND	
AH 3	2/25/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	156	
AH 3	2/25/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	129	
AH 4	2/25/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND	
AH 4	2/25/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	165	
	Closure Cri	teria		10	50	-	-	1,000	-	2,500	20,000	

NOTES:

- = feet

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

ND text denotes non-detectable concentrations

TABLE 1 CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL WPX Energy, Inc. **RDU 12**

2RP-4095

				SW 846	8026B		SW	/ 846 8015M	Ext.		300.0 Cl
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	$\begin{array}{c} \text{GRO + DRO} \\ \text{C}_6\text{-C}_{28} \\ \text{(mg/kg)} \end{array}$	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
TT 1	1/22/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	1,360
TT 1	1/22/2020	12'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND
TT 2	1/23/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	36.0
TT 2	1/23/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	108
TT 3	1/23/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	891
TT 3	1/23/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND
AH 1	1/23/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	222
AH 1	1/23/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	302
AH 2	1/23/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND
AH 2	1/23/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND
AH 3	1/23/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND
AH 3	1/23/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND
AH 4	1/23/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND
AH 4	1/23/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND
AH 5	2/25/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND
AH 5	2/25/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	178
AH 6	2/25/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	173
AH 6	2/25/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	155
AH 7	2/25/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	212
AH 7	2/25/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	142
(Closure Cri	teria		10	50	-	-	1,000	-	2,500	20,000

NOTES:

- = feet

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

ND text denotes non-detectable concentrations

Appendix A Depth to Groundwater Information



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater Geographic Area:

Violented States ✓ GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
 Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 320125103514701

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320125103514701 26S.30E.22.44124

Eddy County, New Mexico Latitude 32°01'25", Longitude 103°51'47" NAD27 Land-surface elevation 3,044 feet above NGVD29

Output formats

Table of data	
Tab-separated data	
Graph of data	
Reselect period	

Date	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1987-10-21		D	117.03			2	2	S		

Explanation

Section		Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	Α	Approved for publication Processing and review completed.

Questions about sites/data? Feedback on this web site **Automated retrievals** Help Data Tips **Explanation of terms** Subscribe for system changes News

Accessibility FOIA Plug-Ins Privacy Policies and Notices

USA.gov

<u>U.S. Department of the Interior | U.S. Geological Survey</u>

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2020-03-02 09:57:48 EST 0.28 0.26 nadww01



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:		
Groundwater	✓ United States	~	GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News 🔊

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 320125103514701

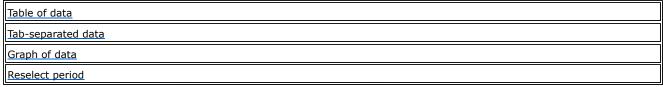
Minimum number of levels = 1

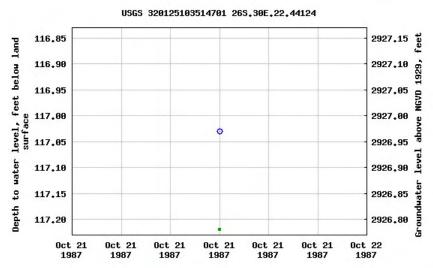
Save file of selected sites to local disk for future upload

USGS 320125103514701 26S.30E.22.44124

Available data for this site Groundwater: Field measurements V GO
Eddy County, New Mexico
Hydrologic Unit Code 13070001
Latitude 32°01'25", Longitude 103°51'47" NAD27
Land-surface elevation 3,044 feet above NGVD29

Output formats





Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u> Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility Plug-Ins FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2020-03-02 09:55:57 EST

0.66 0.55 nadww01





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced, O=orphaned, C=the file is closed)

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

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

(In feet)

		POD													
POD Number	Code	Sub-	County		Q 16		Sec	Tws	Rng	X	Y	DistanceDe	pthWellDer		Water Johnman
C 04068 POD1	Couc	CUB	ED		3	1	16	26S	30E	604397	3546018	4722	рипусивер	tii watei (olumn
<u>C 02165</u>		C	ED				24	26S	30E	610036	3544121*	4967	440	180	260
<u>C 02038</u>		C	ED	3	2	4	26	26S	29E	599204	3541992*	6622	200		
<u>C 03483</u>		C	ED	4	4	4	05	26S	30E	604296	3548251	6907	700	200	500
C 03581 POD1		CUB	ED	4	4	4	05	26S	30E	604298	3548291	6946	800	320	480
<u>C 01361</u>		CUB	ED	3	4	3	05	26S	30E	603240	3548157	7124	775	184	591
<u>C 01360</u>		CUB	ED	4	3	3	05	26S	30E	602997	3548152	7211	770	173	597
<u>C 01354 X-3</u>		CUB	ED	2	1	3	23	26S	29E	598323	3543837	7838	170		
C 03605 POD1		CUB	ED	4	2	3	27	26S	29E	596990	3541983	8831	45	0	45
<u>C 02248</u>		CUB	ED	1	2	3	08	26S	31E	612942	3547316*	9196	300	292	8
<u>C 02249</u>		CUB	ED	1	2	3	08	26S	31E	612942	3547316*	9196	300	292	8
<u>C 01777</u>		C	ED				08	26S	31E	613245	3547409*	9490	325	300	25

Average Depth to Water:

215 feet

Minimum Depth:

0 feet

Maximum Depth:

320 feet

Record Count: 12

UTMNAD83 Radius Search (in meters):

Easting (X): 605808.6733984414 Northing (Y): 3541511.5491144983 Radius: 10000

*UTM location was derived from PLSS - see Help

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

3/1/20 1:47 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Water Right Summary

get image list

WR File Number: C 02165 Subbasin: C Cross Reference:

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Owner: GRACE OIL
Contact: CORKY GLENN

Documents on File

Status From/

File/Act 1 2 Transaction Desc. To Acres Diversion Consumptive

■ get 468923 72121 1988-05-02 PMT LOG C 02165 T 3

Current Points of Diversion

Trn#

Doc

(NAD83 UTM in meters)

 POD Number
 Well Tag
 Source
 64Q16Q4Sec Tws Rng
 X
 Y
 Other Location Desc

 C 02165
 Shallow
 24 268 30E
 610036 3544121*
 # 1780 FEL 460 FSL

An () after northing value indicates UTM location was derived from PLSS - see Help

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

3/2/20 7:57 AM WATER RIGHT SUMMARY

Appendix B Field Data and Soil Profile Logs



Sample Log

Date:

Jan 23, 2020

Project:

RDU 12 (2RP-2211, 2RP-4095)

Project Number:

11755

Latitude:

32.00476033

Longitude:

-103.8797759

Sample ID	PID/Odor	Chlor	ide Conc.	GPS
TI @ 1' @ 3:10,	m 1.7 I none	4.0	580	32.004571,-103.879486
2' @3:159	m of none	3.8	528	100000000000000000000000000000000000000
4' @ 3:200		1.2	< 108	
	m 2.0 / none	4. 2.	632	32.004572,-103.879565
21 @ 3:45		4.0	580	3,:00 127
4' 63:50-		1.8	132	
HI @ 1'@ 1:00 p	m 1.3/ none	7.6	2,076	32.004553,-103.879662
2' @ 1:15 0	n of none	6.6	1,488	
4'@ 1:30 p	n 1.7/none	7.0	1,696	* Auger max depth
		-		
				

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Soil Profile

Project: RDU 12	(2DD 2244)			Date:	Jon 22-23, 2020
Project Number:	(2RP-2211)				
	11755	Latitude: _	32.00476033	Longitude:	-103.8797759
epth (ft. bgs)			Doc	crintian	
1	lunt o	reduce brown	ally and took	cription	
2	medin	n bown alt	silly sand trace	CALLETTE	
3					
4	//		11 Calche 11	i aut	
5				7	- Committee of the Comm
6	***************************************				
7	-				
8	***************************************		*****		
9	****				
10	***************************************				
11 12					
13	***************************************				
14	***************************************				
15					
16					
17	***************************************				
18					
19					
20	***************************************				
21					
22					
23					
24	Andrews Print Hilliams and a	The state of the s			
25	-	PERSONALLY, N. C. Ste. Code. Lie Salvani Catagorie von V. Ste. const.	1 Mart 11, 1 and 10 and 10 and 11		
26	W Bracks	PROPERTY AND A STATE OF THE STA	MANUAL IN MANUAL CAMBRILLIAN AND AND AND AND AND AND AND AND AND A		
27	0.0 mm - 1.0 mm - 1.0 mm - 1.0 mm - 1.0 mm	complete and the second contract of the secon			
28	Automate Made (4 C. A. Indoorum and	antina di Kandili kalantan antana da akan 11° antan kana da ak			
29	\$1000 at \$1.00 at \$1.				
30	erenne dan transmission				
31					
32					
33	8				
34					
35					
36	***************************************				
37					
38					
39 40					
70					



Sample Log

		Date:	2.25.20
Project:	RDU 12 (2RP-2211)		

Drainet M.						
Project Number:	11755	1 - 4 ** 1				
,	11755	Latitude:	32.00476033	Longitude:	-103.8797759	
		-utitude.	32.007/0033	Longitude.	-103.0/3//37	

		PID/Odor		Cilionia	le Conc.	GPS
			2.2	\rightarrow	220	32.004631, -103.879677
	3:25 pm	0.4 / none	1.6			
	3:70 pm	0/none	1.4	\rightarrow		
4	3:40 pm	11 11	1.0	-		
	3:50 pm	0,7 / none	1.8	\rightarrow		32.004560,-103.879742
	4:00 pm	o /none	1.4	→		
	4:10 pm	n' "	1.0	\rightarrow		
		" "	1,0	\rightarrow		
	,	1.3 more	1.2	-		32.004450, -103.87964
	4:25 pm	0 / none	1.8	→		703.017077
	4:30 pm	,,	2.0	\rightarrow		
	4:42 bw	" "	1.0	-		
6'	5:65 pm	0/none	1,4			
	1' 2' 3' 4' 1' 2' 3' 4' 6'	2' 3:28 pm 3' 3:30 pm 4' 3:40 pm 1' 3:50 pm 2' 4:00 pm 3' 4:10 pm 4' 4:18 pm 1' 4:20 pm 2' 4:25 pm 3' 4:30 pm 4' 4:30 pm	3' 3:70 pm 0 / none 4' 3:40 pm 1' " 1' 3:50 pm 0:7 / none 2' 4:00 pm 0 / none 3' 4:10 pm " " 4' 4:15 pm " " 1' 4:20 pm 1.3 / none 2' 4:25 pm 0 / none 3' 4:30 pm " " 4' 4:45 pm 0 / none	2' 3:25 pn 0.4 / none 1.6 3' 3:30 pm 0 / none 1.4 4' 3:40 pm 11 11 1.0 1' 3:50 pm 0.7 / none 1.8 2' 4:00 pm 0 / none 1.4 3' 4:10 pm 11 11 1.0 4' 4:15 pm 11 11 1.0 1' 4:20 pm 1.3 / none 1.2 2' 4:25 pm 0 / none 1.8 3' 4:30 pm 11 12.0 4' 4:45 pm 11 1.0	2' 3:25 pn 0.4/none 1.6 3' 3:30 pm 0/none 1.4 3' 3:40 pm " " 1.0 3' 4:00 pm 0.7/none 1.8 3' 4:10 pm " " 1.0 3' 4:15 pm " " 1.0 3' 4:25 pm 0/none 1.2 3' 4:25 pm 0/none 1.2 3' 4:30 pm " " 2.0 3' 4:30 pm " " 2.0 3' 4:30 pm " " 1.0 3' 4:30 pm " 1.0	2' 3:25 pn 0.4 none 1.6 \rightarrow 148 3' 3:30 pm 0 none 1.4 \rightarrow 124 1' 3:50 pm 0.7 none 1.8 \rightarrow 168 2' 4:00 pm 0 none 1.4 \rightarrow 124 3' 4:10 pm " " 1.0 \rightarrow 2/24 4' 4:15 pm " " 1.0 \rightarrow 2/24 2' 4:25 pm 0 none 1.8 \rightarrow 1/28 3' 4:30 pm " " 2.0 \rightarrow 1/28 4' 4:45 pm " " 1.0 \rightarrow 1/28 3' 4:30 pm " 1/20 \rightarrow 1/28

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Soil Profile

Omnings.	The American			Date:	5.52.50
Project: RDU	12 (2RP-2211)				
Project Number:	11755	Latitude: _	32.00476033	Longitude:	-103.8797759
Pepth (ft. bgs)					
l I				scription	
j	fight -	medium brown si	14 sand, poorly s.	or ted	CONTRACTOR OF THE STATE OF THE
2	medium	brown Silty	cond		
3					
<u></u>	medium	bown silty	sand , trace calic	he	
A	-				
AH 1 @ 6	bown	silly sound , h	ace of clays	were the second of the second	Statements with conference entired and the statement of t
/			-		
å					
10					
11	***************************************				
12	***************************************				
13	***************************************				
14	***************************************				
15	-				
16					
17	-				
18	-				
19	-				
20	***************************************				
21	-		Manufacture of the Control of the Co		
22	-				
23	Marie of the section				
24	***************************************				
25					
26	Marriado en Santo do America do A	THE REPORT OF LIBERTIES AND LIBERTING			
27	Colored and a construction of				
28	THE RESIDENCE SECTION				
29	A-THERE BOARD SHOULD	Publish Play Transfel Balletin Terrender is destruction of the six			
30	PROPERTY AND ADDRESS OF THE PARTY OF THE PAR				
31	***************************************	THE THE PERSON NAMED IN TH			
32	40 Miles Carlot Control Control	Onlinear or the section of the section of			
33					
	Management considerate and design				
34	and the second s				
35	***************************************				
36	all and the second second				
37	anadam manadam				
38	***************************************				
39	***************************************				
40					



Sample Log

Jun 22-23, 2020 Date:

RDU 12 (2RP-2211 (2RP-4095) Project Number: Longitude: -103.8797759 32.00476033 11755 Latitude:

Sample ID PID/Odor	Chloride Conc.	GPS
TTI @ 1'@1:35 pm 10.0 / mild 7.2	1,812	32.004723, -103.879 774
2' @ 1:45 pm 0.2/40ne 4.6	744	
4 1 1:50 pm 40.0/mild 5.4	996	
6' @ 1:55 pm 20.5/mild 6.8	1,588	
B' @ 2:00 pm 30.0 mild ~ 4.8	804	
10' @ 2:15 pm 5.4 mild 5.0	864	
12' @ 2:20 pm 0.1 / none 1.0	4108	
TTZ @ 1' @ 10:30 am 2.0 / porce 5.6	1,048	32.004828,-103.879758
2' @ 10:45 am 0 / none 4.6	744	
41 @ 10:50 am " " 2.0	164	
TT3 @ 1'@ 11:00 am 1.3/ nore 6.2	1,304	37.004690, -103.879971
z' @ 11:15 am o/ none 6.0	1,220	
4' @ 11:20 am " " 1.4	2108	
AH 1 @ 1' @ 11:57 am 0/none 3.0	348	32.004691,-103.880156
2' @ 12:00pm " " 1.8	132	
4' @ 12:05 pm " " 1.2	< 108	
4H2 @ 1' @ 12:07 pm 0/ none 2.4	232	32.004609,-107.880425
2' @ 12:10pm " " 1.0	4108	
4' @ 12'5 pm " " 0.8	<i>"</i> "	
H 3 @ 1' @ 12:17 pm 0/ more 2.0	164	32.004552,-107.880710
2' @ 12:20pm " " 1.6	108	
4' @ 12:25 pm " " 1.0	4108	
H 4 @ 1' @ 12:27 pm 0/ none -1.8	132	32.004484, -103.881212
2' @ 12:30 pm n 10.8	4/08	
4' @ 12:35 pm " " 0.6	4 108	
and the second s		
The second secon		
A SALE SALE OF THE	THE STATE OF THE S	
	THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Area



Soil Profile

Project:				Date: Te	n 22-23-2020
Project Number: RDU 12	2 (2RP-4095)			- L	
	11755	Latitude:	32.00476033	Longitude:	-103.8797759
Depth (ft. bgs)					
ıl ı			Des	cription	
	Caliche	+ mel bown			
	light -	- mel brown s	11/2 sand		
3					
4	mediu	n brown silly s	and scaliche in	purt	
5	-	/		/	
<u></u>	melium	dk bown co	lay of solly sand		
´			,		
å	melium	from silly	cand, clay in part	Ly trace cal	iche
10					
11	dys	m/ bace nd	Sadstone		
12					
13	<u>//</u>	SAA	11		
14					
15					
16	-				
17					
18	***************************************				
19	-				
20					
21	-				
22	***************************************				
23	***************************************				
24		A PORT DATE	WE APPLIED A SERVICE OF CHILD PROPERTY AND ADDRESS OF CHILDREN AND ADDRESS.		
25	***************************************		THE RESERVE OF THE PERSON NAMED IN COLUMN TWO PERSONS NAMED IN		
26	***************************************		Company of the Art of the Company of		
27	***************************************	The state of the s	the statement and the statement of the statement of		
28					
29	***************************************				
30	***************************************				
31	***************************************				
32					
33	***************************************				
34	***************************************				
35					
36					
37	***************************************				
38	-				

39 					
40					



Sample Log

Project:	RDU 12 (2RP-4095)			Date:	5.52.50	
Project Number:	11755	Latitude:	32.00476033	Longitude:	-103 8797759	

Sample ID	PID/Odor				
AH 5 @ 1:55pm 1"			Chloride (GPS
2:00 pm 2'	1.6 mone	2,2	\rightarrow	220	37.004674, -103.879735
2:10 pm 3'	Lo Inone			168	
2:15pm 41	K / //	1.0	-	<124	
Att 6 @ 2:20 pm 1'	0/ none	~1.0		4124	
	7.7/none	1.6		148	37.004593, -107.979939
2:30pm 2'	1.3/ none	1.0	\rightarrow	<124	
2:55pm 3'	o /none	-1.0		2124	
AH7 @ 2:50pm 11	" "	11 11	\rightarrow	<124	
	0/ none			~248	37.004753, -103.880030
3:00pm 21	h a	1.2	→	c124	
3:10pm 3'	11 4	1.6	>	148	
3:15pm 41	" "	1.0	\rightarrow	<124	
	-				
	_				
	-				
	-				
	-				
100000	-				
			74.5		

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

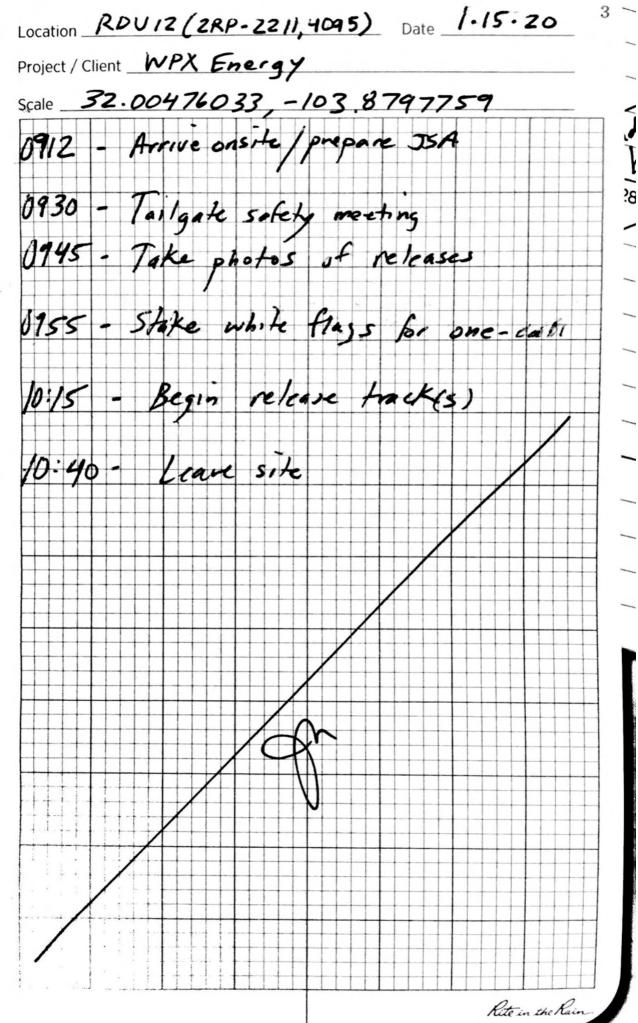
Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Soil Profile

roject:	RDU 12 (2RP-4095)			Date.	2.23.00
roject Number:	11755	Latitude:	32.00476033	Longitude:	-103.8797759
epth (ft. bgs)				scription	
1		· med dk brown			
3	med	dk from sily	and, calline in p		
4		brown Sily'sa) Ar +	
5	mil	brown SIlty SA	and proce of	raliche	
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19 20					
21					
22					
23					
24					
25		reducted to their states to the ten following materials are	***************************************		
26	(Alexandrasia)	harringham the NAS 1867 Control or server			
27	#/####################################				
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38 					
40					
40	according to the contract of t				



Project / Client 28P - 4095 / ZRP - 2211 (WPX) 32.00476033, -103.8797759 1:20 pm - Onsite W/ Kemp (operator) prepare JSA, conduct tailgate Safety meeting calibrate Pib 1:25 pm - Site walkthrough, confirm utilize locates: Yellow flags down 1:27pm - Began delineation activities
for ZRP-4075 Z:30pn - (all Delaware Basin to schedule line remark to sonfirm subsurface gas line. [west of pad from meter 2:45 pm - Prep for delineation activities (ZRP-2211) inside fank bathry 3: Dopm - Utilize backhoe to potrole oner funce. 3:05 pm - Begin delineation activities For (-2211) 4:15pm - Finish, load equipment 4:30pm - offsite

1.23.20 Date

(WPI) Project / Client 2RP-4095 /2RP-2211

37.004760332, - 103.079775899

10:15 am - Confirmed w/ Delnamare Basin, site has been remarked, can cont. to delinate on pad. 10:20 am - prop JSA - tailgate sofety meeting w/ trong, lake equipment, calibrate JEA PID 10:25 am - Continue delineating ZRP-4075 11: 45 am - Install borings in pasture / wash 12:35 pm - Finish boring - for ZRP-4095 1:00 pm Install augerhole inside tank hatting Maccessible N/ equipment for -2211. 1:45 pm - Finish delineation activities 2:30 pn- load equipment 3:00 pm - offite to robonit snaples. * reference Sample map / log for Schaining

Location RDV/2 (ZRP-ZZII, 4095) Date Z/Z5/Zo
Project / Client WPX Energy

1:00 pm - Onsite, JSA prep, tailgate safety
meeting, (alibrate PiD, prep screening
cquipment
1:30 pm - Begin dolinating (cont.) 2211 & 4095 5:30 pm - Finus delineating site | screening Begin jaring samples to take to lab 5:50 pm + Offsite

Appendix C Laboratory Analytical Reports



Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 1/24/2020 Job Number: 04108-0639 Work Order: P001079

Project Name/Location: RDU 12 (2RP-2211)

Report Reviewed By:	Walter Hinderson	Date:	1/30/20	
•				

Walter Hinchman, Laboratory Director



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

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com

envirotech-inc.com



WPX (Carlsbad) Project Name: RDU 12 (2RP-2211)
5315 Buena Vista Dr Project Number: 04108-0639

5315 Buena Vista Dr Project Number: 04108-0639
Carlsbad NM, 88220 Project Manager: Lynda Laumbach

Reported: 01/30/20 16:46

Page 143 of 216

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
TT2 @ 2'	P001079-01A	Soil	01/22/20	01/24/20	Glass Jar, 4 oz.
TT2 @ 4'	P001079-02A	Soil	01/22/20	01/24/20	Glass Jar, 4 oz.
TT1 @ 2'	P001079-03A	Soil	01/22/20	01/24/20	Glass Jar, 4 oz.
TT1 @ 4'	P001079-04A	Soil	01/22/20	01/24/20	Glass Jar, 4 oz.
AH1 @ 2'	P001079-05A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
AH1 @ 4'	P001079-06A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com

envirotech-inc.com



WPX (Carlsbad) Project Name: RDU 12 (2RP-2211)

5315 Buena Vista Dr Project Number: 04108-0639 Reported:
Carlsbad NM, 88220 Project Manager: Lynda Laumbach 01/30/20 16:46

TT2 @ 2' P001079-01 (Solid)

		1 0010	179-01 (Soliu)					
		Reporting						
Analyte	Result	Limit	Units Dil	ution Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021								
Benzene	ND	0.0250	mg/kg 1	2005010	01/27/20	01/29/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1	2005010	01/27/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg 1	2005010	01/27/20	01/29/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg 1	2005010	01/27/20	01/29/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg 1	2005010	01/27/20	01/29/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg 1	2005010	01/27/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %	50-150	2005010	01/27/20	01/29/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	O/ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	2005001	01/27/20	01/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	2005001	01/27/20	01/27/20	EPA 8015D	
Surrogate: n-Nonane		90.0 %	50-200	2005001	01/27/20	01/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO)							
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	2005010	01/27/20	01/29/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.5 %	50-150	2005010	01/27/20	01/29/20	EPA 8015D	
Anions by 300.0/9056A								
Chloride	ND	100	mg/kg 5	2005019	01/28/20	01/29/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com

envirotech-inc.com



5315 Buena Vista Dr Project Number: 04108-0639 Reported: 01/30/20 16:46 Carlsbad NM, 88220 Project Manager: Lynda Laumbach

> TT2 @ 4' P001079-02 (Solid)

		1 0010	79-02 (501	iu)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50-1	50	2005010	01/27/20	01/29/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	D/ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D	
Surrogate: n-Nonane		101 %	50-2	200	2005001	01/27/20	01/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO)								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.6 %	50-1	50	2005010	01/27/20	01/29/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	100	mg/kg	5	2005019	01/28/20	01/29/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



5315 Buena Vista Dr Project Number: 04108-0639 Reported:
Carlsbad NM, 88220 Project Manager: Lynda Laumbach 01/30/20 16:46

TT1 @ 2' P001079-03 (Solid)

P001079-03 (Solid)													
		Reporting											
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes				
Volatile Organics by EPA 8021													
Benzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B					
Toluene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B					
Ethylbenzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B					
p,m-Xylene	ND	0.0500	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B					
o-Xylene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B					
Total Xylenes	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B					
Surrogate: 4-Bromochlorobenzene-PID		100 %	50-13	50	2005010	01/27/20	01/29/20	EPA 8021B					
Nonhalogenated Organics by 8015 - DRO	O/ORO												
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D					
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D					
Surrogate: n-Nonane		87.9 %	50-20	00	2005001	01/27/20	01/27/20	EPA 8015D					
Nonhalogenated Organics by 8015 - GRO)												
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8015D					
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.3 %	50-13	50	2005010	01/27/20	01/29/20	EPA 8015D					
Anions by 300.0/9056A													
Chloride	ND	100	mg/kg	5	2005019	01/28/20	01/29/20	EPA 300.0/9056A					

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



5315 Buena Vista Dr Project Number: 04108-0639 Reported: 01/30/20 16:46 Carlsbad NM, 88220 Project Manager: Lynda Laumbach

TT1 @ 4' P001079-04 (Solid)

P001079-04 (S0Hd)													
		Reporting	<u>-</u>										
Analyte	Result	Limit	Units I	Dilution	Batch	Prepared	Analyzed	Method	Notes				
Volatile Organics by EPA 8021													
Benzene	ND	0.0250	mg/kg 1		2005010	01/27/20	01/29/20	EPA 8021B					
Toluene	ND	0.0250	mg/kg 1		2005010	01/27/20	01/29/20	EPA 8021B					
Ethylbenzene	ND	0.0250	mg/kg 1		2005010	01/27/20	01/29/20	EPA 8021B					
p,m-Xylene	ND	0.0500	mg/kg 1		2005010	01/27/20	01/29/20	EPA 8021B					
o-Xylene	ND	0.0250	mg/kg 1		2005010	01/27/20	01/29/20	EPA 8021B					
Total Xylenes	ND	0.0250	mg/kg 1		2005010	01/27/20	01/29/20	EPA 8021B					
Surrogate: 4-Bromochlorobenzene-PID		102 %	50-150)	2005010	01/27/20	01/29/20	EPA 8021B					
Nonhalogenated Organics by 8015 - DRO/OF	RO												
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1		2005001	01/27/20	01/27/20	EPA 8015D					
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1		2005001	01/27/20	01/27/20	EPA 8015D					
Surrogate: n-Nonane		93.5 %	50-200)	2005001	01/27/20	01/27/20	EPA 8015D					
Nonhalogenated Organics by 8015 - GRO													
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		2005010	01/27/20	01/29/20	EPA 8015D					
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.7 %	50-150)	2005010	01/27/20	01/29/20	EPA 8015D					
Anions by 300.0/9056A													
Chloride	ND	100	mg/kg 5		2005019	01/28/20	01/29/20	EPA 300.0/9056A					

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com

24 Hour Emergency Response Phone (800) 362-1879



5315 Buena Vista Dr Project Number: 04108-0639 Reported: Carlsbad NM, 88220 Project Manager: Lynda Laumbach 01/30/20 16:46

AH1 @ 2' P001079-05 (Solid)

		P0010	79-05 (Sol	1d)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50-1	150	2005010	01/27/20	01/29/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D	
Surrogate: n-Nonane		85.4 %	50-2	200	2005001	01/27/20	01/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.8 %	50-1	150	2005010	01/27/20	01/29/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	5310	100	mg/kg	5	2005019	01/28/20	01/29/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



5315 Buena Vista Dr Project Number: 04108-0639 Reported:
Carlsbad NM, 88220 Project Manager: Lynda Laumbach 01/30/20 16:46

AH1 @ 4' P001079-06 (Solid)

		P0010	79-06 (Soli	id)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50-1	50	2005010	01/27/20	01/29/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/0	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D	
Surrogate: n-Nonane		89.8 %	50-2	200	2005001	01/27/20	01/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.7 %	50-1	50	2005010	01/27/20	01/29/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1970	100	mg/kg	5	2005019	01/28/20	01/29/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com



5315 Buena Vista Dr Project Number: 04108-0639 Reported: Carlsbad NM, 88220 Project Manager: Lynda Laumbach 01/30/20 16:46

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Resuit	Limit	Units	Level	Resuit	70KEC	LIIIIIIS	KFD	LIIIII	notes
Batch 2005010 - Purge and Trap EPA 5030A										
Blank (2005010-BLK1)				Prepared: (01/27/20 1 A	Analyzed: 0	01/30/20 1			
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	7.96		"	8.00		99.5	50-150			
LCS (2005010-BS1)				Prepared: (01/27/20 1 A	Analyzed: 0	01/28/20 1			
Benzene	5.07	0.0250	mg/kg	5.00		101	70-130			
Toluene	5.15	0.0250	"	5.00		103	70-130			
Ethylbenzene	5.07	0.0250	"	5.00		101	70-130			
p,m-Xylene	10.1	0.0500	"	10.0		101	70-130			
o-Xylene	5.03	0.0250	"	5.00		101	70-130			
Total Xylenes	15.1	0.0250	"	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.10		"	8.00		101	50-150			
Matrix Spike (2005010-MS1)	Sou	rce: P001077-	01	Prepared: (01/27/20 1 A	Analyzed: 0	01/28/20 2			
Benzene	4.90	0.0250	mg/kg	5.00	ND	97.9	54.3-133			
Toluene	5.02	0.0250	"	5.00	ND	100	61.4-130			
Ethylbenzene	4.95	0.0250	"	5.00	ND	99.0	61.4-133			
p,m-Xylene	9.84	0.0500	"	10.0	ND	98.4	63.3-131			
o-Xylene	4.92	0.0250	"	5.00	ND	98.4	63.3-131			
Total Xylenes	14.8	0.0250	"	15.0	ND	98.4	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8.20		"	8.00		103	50-150			
Matrix Spike Dup (2005010-MSD1)	Sou	rce: P001077-	01	Prepared: (01/27/20 1 A	Analyzed: 0	01/28/20 2			
Benzene	4.87	0.0250	mg/kg	5.00	ND	97.5	54.3-133	0.454	20	
Toluene	5.00	0.0250	"	5.00	ND	100	61.4-130	0.454	20	
Ethylbenzene	4.94	0.0250	"	5.00	ND	98.8	61.4-133	0.212	20	
p,m-Xylene	9.82	0.0500	"	10.0	ND	98.2	63.3-131	0.258	20	
o-Xylene	4.91	0.0250	"	5.00	ND	98.2	63.3-131	0.239	20	
Total Xylenes	14.7	0.0250	"	15.0	ND	98.2	63.3-131	0.252	20	
Surrogate: 4-Bromochlorobenzene-PID	8.21		,,	8.00		103	50-150		•	
Surroguie. 4-Dromocniorobenzene-PID	8.21			8.00		103	30-130			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



5315 Buena Vista DrProject Number:04108-0639Reported:Carlsbad NM, 88220Project Manager:Lynda Laumbach01/30/20 16:46

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2005001 - DRO Extraction EPA 3570										
Blank (2005001-BLK1)				Prepared: (01/27/20 0 A	Analyzed: 0	1/27/20 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	53.3		"	50.0		107	50-200			
LCS (2005001-BS1)				Prepared: (01/27/20 0 A	Analyzed: 0	1/27/20 1			
Diesel Range Organics (C10-C28)	450	25.0	mg/kg	500		90.1	38-132			
Surrogate: n-Nonane	50.2		"	50.0		100	50-200			
Matrix Spike (2005001-MS1)	Sour	ce: P001072-	01	Prepared: (01/27/20 0 A	Analyzed: 0	1/27/20 1			
Diesel Range Organics (C10-C28)	479	25.0	mg/kg	500	29.1	90.0	38-132			
Surrogate: n-Nonane	47.3		"	50.0		94.7	50-200			
Matrix Spike Dup (2005001-MSD1)	Sour	ce: P001072-	01	Prepared: (01/27/20 0 A	Analyzed: 0	1/27/20 1			
Diesel Range Organics (C10-C28)	483	25.0	mg/kg	500	29.1	90.9	38-132	0.962	20	
Surrogate: n-Nonane	47.5		"	50.0		95.0	50-200			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com



5315 Buena Vista DrProject Number:04108-0639Reported:Carlsbad NM, 88220Project Manager:Lynda Laumbach01/30/20 16:46

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Spike

Source

%REC

RPD

Reporting

				~ P	~ ~ ~ ~ ~ ~		,			
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2005010 - Purge and Trap EPA 5030A										
Blank (2005010-BLK1)				Prepared:	01/27/20 1	Analyzed: 0	01/30/20 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		"	8.00		88.1	50-150			
LCS (2005010-BS2)				Prepared:	01/27/20 1	Analyzed: 0	01/28/20 1			
Gasoline Range Organics (C6-C10)	46.6	20.0	mg/kg	50.0		93.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.08		"	8.00		88.5	50-150			
Matrix Spike (2005010-MS2)	Sour	ce: P001077-	01	Prepared:	01/27/20 1	Analyzed: 0	01/28/20 2			
Gasoline Range Organics (C6-C10)	48.2	20.0	mg/kg	50.0	ND	96.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.12		"	8.00		89.0	50-150			
Matrix Spike Dup (2005010-MSD2)	Sour	ce: P001077-	01	Prepared:	01/27/20 1	Analyzed: 0	01/28/20 2			
Gasoline Range Organics (C6-C10)	45.1	20.0	mg/kg	50.0	ND	90.2	70-130	6.61	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.15		"	8.00		89.4	50-150			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

RPD

%REC



WPX (Carlsbad) Project Name: RDU 12 (2RP-2211)

5315 Buena Vista DrProject Number:04108-0639Reported:Carlsbad NM, 88220Project Manager:Lynda Laumbach01/30/20 16:46

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Spike

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes		
Batch 2005019 - Anion Extraction EPA 300	0.0/9056A											
Blank (2005019-BLK1)				Prepared &	Analyzed:	01/28/20 1						
Chloride	ND	20.0	mg/kg									
LCS (2005019-BS1)				Prepared &	Analyzed:	01/28/20 1						
Chloride	254	20.0	mg/kg	250		102	90-110					
Matrix Spike (2005019-MS1)	Source	e: P001076-	01	Prepared &	Analyzed:	01/28/20 1						
Chloride	1600	100	mg/kg	250	1360	96.3	80-120					
Matrix Spike Dup (2005019-MSD1)	Source	e: P001076-	6-01 Prepared & Analyzed: 01/28/20 1									
Chloride	1620	100	mg/kg	250	1360	104	80-120	1.26	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 my differ slightly.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401 Ph (505) 632-0615 Fx (505) 632-1865 envirotech-inc.com

24 Hour Emergency Response Phone (800) 362-1879 Labadmin@envirotech-inc.com



5315 Buena Vista Dr Project Number: 04108-0639 Reported:
Carlsbad NM, 88220 Project Manager: Lynda Laumbach 01/30/20 16:46

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

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

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

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com

Client:	Report Attention			Lab Use Only						TAT EPA Program			or Ic
Project: RPUIZ (ZRP-2211)	Report due by:		Lab \	MO#	Lab		b Nur	nher		1D 3D	RCRA	CWA	SDW/
Project Manager:	Attention:			210	10	200 B		8-00	39550501 -	10 30	KCKA	240.837.977850.555	2011
Address:	Address:			010				nd Me				Sta	ate 0
City, State, Zip	City, State, Zip		2	2		T	11,515 a	1 2				NMI CO	ate obe
Phone:	Phone:		801	801			0.					10000 100	
Email: Lynda @ WPX	Email: joseph @ etechenv		yd C	yd C	802	2560	300	8				X	1 5
Time Date	Jernam Jerger Granten	Lab	DRO/ORO by 8015	GRO/DRO by 8015	φ)	م ا م	Chloride 300.0	BC-00					n .
Sampled Sampled Matrix Containers Sample ID		Number	B	GRO	BTEX by 8021	VOC by 8260	Chlo	8				Ren	narks
3:45pm 1:22.20 5 1 TTZ	@ Z'	1						X					
3:50gm 1.22.26 5 TTZ	@ 4'	2									X *		
3:15pm 1.22.20 1 TT1	@ 21	3											
3:15pm 1-22-20 1 TT1 3:20pm 1-22-22 1 TT1	@ 41	4											
1:15 pm 1.23.20 AH 1	@ 21	5											
1:30pm 1 1 A-H	1041	له				_)					
Additional Instructions:													
I, (field sampler), attest to the validity and authenticity of this sample. I am av		ample location	, date o	ŕ		10000						ce the day they a °C on subsequen	And the second of the second o
Relinquished by: (Signature) Date 1.23.20 7:2	Received by: (9/gnature)	Date /-23-2		Time 16	25	R	eceive	ed on i	ice:	Lab U	se Only N		
Relinquished by: (Signature) Date Time		Date 1 24 2		Time	:30	T	1	mp °C		T2 /		<u>T3</u>	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Othe	Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA												
Note: Samples are discarded 30 days after results are reported unle samples is applicable only to those samples received by the laborate								ne client	exper	nse. The r	eport for the	analysis of	the above
_													0



5796 US Highway 64, Farmington, NM 87401

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 Fr (800) 362-1879

Project Information Client: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Chain of Custody Report Attention				Lab Use Only TAT EPA Program								
			1 14/0			AND DESCRIPTION OF THE PARTY OF	anhar	1D 3D	RCRA	CWA SDW			
Project: PDV12 (ZPP-2211)	Report due by:		ab WO		2500000255500	Job Nu			NCNA	CVVA	SDW 5		
Project Manager: Lynda Laumbach	Attention:	— t	00010	2 4-1			08-063			C+-	te at TU Ade 15		
Address:	Address:				A	nalysis a	nd Meth	od		Sta	te o		
City, State, Zip	City, State, Zip		015				5			NM CO	DI A B		
Phone:	Phone:		by 8	121	9	0.00	0			X			
Email: Lynda (a) WPX	Email: joseph @ etcchenv.c	un	8 8	14 80	7 82	607 Je 3	18						
Time Date Sampled Sampled Matrix No Containers Sample ID	N	Lab umber	DRO/ORO by 8015 GRO/DRO by 8015	ВТЕХ by 8021	VOC by 8260	Metals 6010 Chloride 300.0	BC-DO			Rem	arks		
3:45pm/22.20 5 1 TTZ	@ Z'	1					X						
3:50pm 1.22.6 5 1 TTZ		2		TO AL			(
		3											
3:15pm 1.22.20 TT 1 3:20pm 1.22.22 TT 1 1:15pm 1.23.20 A++ 1 1:30pm A++	@ 41	4									14 - H		
1:15 pm 1.23.20 AH 1	@ 2'	5											
1:30pm 1 1 Att		e											
Additional Instructions:													
I, (field sampler), attest to the validity and authenticity of this sample. I am avitime of collection is considered fraud and may be grounds for legal action. Sa		le location, o	date or					reservation must avg temp above 0					
Relinquished by: (Signature) Date Time	Received by: (Signature)	ite -23-20	Time	62:	5	Receiv	ed on ice		se Only N				
Relinquished by: (Signature) Date Time	Received by: (Signature) Da	te 24 20	Time	1:3	N.	T1	emp °C_	T2 /		<u>T3</u>			
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						ooly/pla	stic, ag -	amber glas	s, v - VOA				
Note: Samples are discarded 30 days after results are reported unle	ess other arrangements are made. Hazardous samples	will be retu	urned to cl	ient or	dispos	ed of at t	he client ex	pense. The re	eport for the	analysis of t	he above		
samples is applicable only to those samples received by the laborat	ory with this COC. The liability of the laboraotry is limit	ited to the	amount p	aid for	on the	report.							

envirotech
Analytical Laboratory

5796 US Highway 64, Farmington, NM 87401

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 Fr (800) 362-1879

laboratory@envirotech-inc.com



Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 2/27/2020 Job Number: 04108-0639 Work Order: P002091

Project Name/Location: RDU 12 (2RP-2211)

Walter Hinchman, Laboratory Director



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

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com

Carlsbad NM, 88220

Reported:

02/28/20 13:37



WPX (Carlsbad) Project Name: RDU 12 (2RP-2211) 5315 Buena Vista Dr Project Number:

04108-0639 Project Manager: Lynda Laumbach

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
AH1 @ 6'	P002091-01A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH2 @ 2'	P002091-02A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH2 @ 4'	P002091-03A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH3 @ 2'	P002091-04A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH3 @ 4'	P002091-05A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH4 @ 2'	P002091-06A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH4 @ 4'	P002091-07A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com

24 Hour Emergency Response Phone (800) 362-1879



5315 Buena Vista Dr Project Number: 04108-0639 Reported: Carlsbad NM, 88220 Project Manager: Lynda Laumbach 02/28/20 13:37

AH1 @ 6' P002091_01 (Solid)

			91-01 (Soli	d)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50-1.	50	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		89.5 %	50-20	00	2009029	02/27/20	02/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.4 %	50-1.	50	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	153	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



5315 Buena Vista Dr Project Number: 04108-0639 Reported: Carlsbad NM, 88220 Project Manager: Lynda Laumbach 02/28/20 13:37

AH2 @ 2' P002091_02 (Solid)

			91-02 (Soli	id)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50-1	50	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		84.8 %	50-2	00	2009029	02/27/20	02/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.6 %	50-1	50	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	166	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



5315 Buena Vista Dr Project Number: 04108-0639 Reported:
Carlsbad NM, 88220 Project Manager: Lynda Laumbach 02/28/20 13:37

AH2 @ 4' P002091-03 (Solid)

		P0020	91-03 (Solid)					
		Reporting						·
Analyte	Result	Limit	Units Di	lution Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021								
Benzene	ND	0.0250	mg/kg 1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg 1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg 1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg 1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg 1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50-150	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/6	ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		92.0 %	50-200	2009029	02/27/20	02/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.0 %	50-150	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A								
Chloride	ND	100	mg/kg 5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com



5315 Buena Vista Dr Project Number: 04108-0639 Reported: Carlsbad NM, 88220 Project Manager: Lynda Laumbach 02/28/20 13:37

AH3 @ 2' P002091-04 (Solid)

		P0020	91-04 (50	liu)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50-	150	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OF	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		93.8 %	50	200	2009029	02/27/20	02/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.4 %	50-	150	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	156	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com



5315 Buena Vista Dr Project Number: 04108-0639 Reported: Carlsbad NM, 88220 Project Manager: Lynda Laumbach 02/28/20 13:37

AH3 @ 4' P002091-05 (Solid)

		1 0020	91-03 (301	iu)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50-1	150	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/Ol	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		95.2 %	50-2	200	2009029	02/27/20	02/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.3 %	50-1	150	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	129	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com



5315 Buena Vista Dr Project Number: 04108-0639 Reported: Carlsbad NM, 88220 Project Manager: Lynda Laumbach 02/28/20 13:37

AH4 @ 2' P002091-06 (Solid)

		Reporting	21 00 (SOII						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %	50-1	50	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OI	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		87.2 %	50-2	00	2009029	02/27/20	02/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.1 %	50-1	50	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com



5315 Buena Vista Dr Project Number: 04108-0639 Reported: Carlsbad NM, 88220 Project Manager: Lynda Laumbach 02/28/20 13:37

AH4 @ 4' P002091-07 (Solid)

		1 0020	91-07 (3011	iu)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.9 %	50-1	50	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		96.7 %	50-2	000	2009029	02/27/20	02/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.4 %	50-1	50	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	165	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com

24 Hour Emergency Response Phone (800) 362-1879



5315 Buena Vista Dr Project Number: 04108-0639 Reported: Carlsbad NM, 88220 Project Manager: Lynda Laumbach 02/28/20 13:37

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2009030 - Purge and Trap EPA 5030A										
Blank (2009030-BLK1)				Prepared: (02/27/20 0 A	Analyzed: 0	2/27/20 1			
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.34		"	8.00		104	50-150			
LCS (2009030-BS1)				Prepared: (02/27/20 0 A	Analyzed: 0	2/27/20 1			
Benzene	4.94	0.0250	mg/kg	5.00		98.7	70-130			
Toluene	4.94	0.0250	"	5.00		98.8	70-130			
Ethylbenzene	4.93	0.0250	"	5.00		98.6	70-130			
p,m-Xylene	9.84	0.0500	"	10.0		98.4	70-130			
o-Xylene	4.93	0.0250	"	5.00		98.6	70-130			
Total Xylenes	14.8	0.0250	"	15.0		98.5	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.42		"	8.00		105	50-150			
Matrix Spike (2009030-MS1)	Sou	rce: P002090-	01	Prepared: (02/27/20 0 A	Analyzed: 0	2/27/20 1			
Benzene	4.96	0.0250	mg/kg	5.00	ND	99.1	54.3-133			
Toluene	4.96	0.0250	"	5.00	ND	99.2	61.4-130			
Ethylbenzene	4.96	0.0250	"	5.00	ND	99.1	61.4-133			
p,m-Xylene	9.90	0.0500	"	10.0	ND	99.0	63.3-131			
o-Xylene	4.96	0.0250	"	5.00	ND	99.3	63.3-131			
Total Xylenes	14.9	0.0250	"	15.0	ND	99.1	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.40		"	8.00		105	50-150			
Matrix Spike Dup (2009030-MSD1)	Sou	rce: P002090-	01	Prepared: (02/27/20 0 A	Analyzed: 0	2/27/20 1			
Benzene	5.11	0.0250	mg/kg	5.00	ND	102	54.3-133	3.13	20	
Toluene	5.09	0.0250	"	5.00	ND	102	61.4-130	2.55	20	
Ethylbenzene	5.07	0.0250	"	5.00	ND	101	61.4-133	2.31	20	
p,m-Xylene	10.1	0.0500	"	10.0	ND	101	63.3-131	2.15	20	
o-Xylene	5.07	0.0250	"	5.00	ND	101	63.3-131	2.20	20	
Total Xylenes	15.2	0.0250	"	15.0	ND	101	0-200	2.17	200	
Surrogate: 4-Bromochlorobenzene-PID	8.44		"	8.00		105	50-150			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com

24 Hour Emergency Response Phone (800) 362-1879



5315 Buena Vista Dr Project Number: 04108-0639 Reported: Carlsbad NM, 88220 Project Manager: Lynda Laumbach 02/28/20 13:37

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2009029 - DRO Extraction EPA 3570										
Blank (2009029-BLK1)				Prepared: (02/27/20 0 A	Analyzed: 0	2/27/20 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	46.1		"	50.0		92.2	50-200			
LCS (2009029-BS1)				Prepared: (02/27/20 0 A	Analyzed: 0	2/27/20 1			
Diesel Range Organics (C10-C28)	453	25.0	mg/kg	500		90.6	38-132			
Surrogate: n-Nonane	47.5		"	50.0		95.0	50-200			
Matrix Spike (2009029-MS1)	Sour	ce: P002090-	01	Prepared: (02/27/20 0 A	Analyzed: 0	2/27/20 1			
Diesel Range Organics (C10-C28)	462	25.0	mg/kg	500	ND	92.4	38-132			
Surrogate: n-Nonane	48.3		"	50.0		96.5	50-200			
Matrix Spike Dup (2009029-MSD1)	Sour	ce: P002090-	01	Prepared: (02/27/20 0 A	Analyzed: 0	2/27/20 1			
Diesel Range Organics (C10-C28)	466	25.0	mg/kg	500	ND	93.2	38-132	0.836	20	
Surrogate: n-Nonane	48.6		"	50.0		97.2	50-200			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com



5315 Buena Vista DrProject Number:04108-0639Reported:Carlsbad NM, 88220Project Manager:Lynda Laumbach02/28/20 13:37

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Spike

Source

%REC

RPD

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2009030 - Purge and Trap EPA 5030A										
Blank (2009030-BLK1)				Prepared: (02/27/20 0	Analyzed: 0	02/27/20 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		"	8.00		94.1	50-150			
LCS (2009030-BS2)				Prepared: (02/27/20 0	Analyzed: 0	02/27/20 1			
Gasoline Range Organics (C6-C10)	46.6	20.0	mg/kg	50.0		93.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		"	8.00		93.1	50-150			
Matrix Spike (2009030-MS2)	Source	e: P002090-	01	Prepared: (02/27/20 0	Analyzed: 0	02/27/20 1			
Gasoline Range Organics (C6-C10)	46.4	20.0	mg/kg	50.0	ND	92.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		"	8.00		94.2	50-150			
Matrix Spike Dup (2009030-MSD2)	Source	e: P002090-	01	Prepared: (02/27/20 0	Analyzed: 0	02/27/20 1			
Gasoline Range Organics (C6-C10)	47.5	20.0	mg/kg	50.0	ND	94.9	70-130	2.15	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		"	8.00		92.4	50-150			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com

Page 12 of 15

RPD

%REC



WPX (Carlsbad) Project Name: RDU 12 (2RP-2211)

5315 Buena Vista Dr Project Number: 04108-0639 Reported:
Carlsbad NM, 88220 Project Manager: Lynda Laumbach 02/28/20 13:37

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Spike

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2009031 - Anion Extraction EPA 300.0	/9056A									
Blank (2009031-BLK1)				Prepared: (02/27/20 0 A	Analyzed: 0	2/27/20 1			
Chloride	ND	20.0	mg/kg							
LCS (2009031-BS1)				Prepared: (02/27/20 0 A	Analyzed: 0	2/27/20 1			
Chloride	263	20.0	mg/kg	250		105	90-110			
Matrix Spike (2009031-MS1)	Sourc	e: P002090-	01	Prepared: (02/27/20 0 A	Analyzed: 0	2/27/20 1			
Chloride	331	100	mg/kg	250	ND	132	80-120			M1
Matrix Spike Dup (2009031-MSD1)	Sourc	e: P002090-	01	Prepared: (02/27/20 0	Analyzed: 0	2/27/20 1			
Chloride	324	100	mg/kg	250	ND	130	80-120	2.05	20	M1

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 my differ slightly.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401 Ph (505) 632-0615 Fx (505) 632-1865 envirotech-inc.com

24 Hour Emergency Response Phone (800) 362-1879 Labadmin@envirotech-inc.com



5315 Buena Vista Dr Project Number: 04108-0639 Reported: Carlsbad NM, 88220 Project Manager: Lynda Laumbach 02/28/20 13:37

Notes and Definitions

Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable. M1

Analyte NOT DETECTED at or above the reporting limit ND

Not Reported NR

RPD Relative Percent Difference

Methods marked with ** are non-accredited methods.

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

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com

	1	Γ
Page _	of _	4

-E	formatio			``a	nin of Custody											,	Page	of am SI
Client:	W	οχ	RP-22	Report Atten	tion			La	ab Us	se Onl	V			T	AT	E	PA Progr	am
Project:	KDU	12 (2	RP-22	Report due by:		Lal	b WO			Job N	lumb	er		1D		RCRA	CWA	T SI
Project M	lanager:			Attention:	1		00		41	041	108-	DI	039	$\overline{\times}$				+ -
<u>Address:</u>				Address:		_			-	Analys	is and	d Me	ethod	1			St	ate
City, State	e, Zip			City, State, Zip		15	15				\$				Г			UT
Phone:	, ,			Phone:	1	_ 8	y 80	г.	0	0.0	1						Y	
Email:	Lynd	a O	WPX	Email: joseph@ etech	nenv. com	30 b	0 o	802	826	300	2	902	Σ	×				
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	La Num	0	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BUDOC	TCEQ 1005	BGDOC - NM	BGDOC - TX			Rer	nark
5:25pm	2.12.11	' 5	1	AHIOG'							X							
3:25pm		5	/	AHZ@ 2'	2						X							
3:90pm		5	1	AHZ@4'	3						X							
1:00 pm		5	1	AH3@2'	4						X							
7:15 pm		5	1	AH3@41	5						X							4,-2,
1:25 pm		5	1	AH 4 @ Z'	4						X							
1:45 pm	V	5	1	AH4@Z' AH4@41	· 3						X							
Additiona	l Instruct	ions:		* 24 hr TAT														
				is sample. I am aware that tampering with or intentionally mislabelling the for legal action. Sampled by:	sample location, date	or											e day they are sar subsequent days	
Zn	d by: (Signa		Date 2	Time Received by: (Signature)	Date 2.7	5.20	Time	115	Ś	Receiv	ved o	n ic	e:		b Us	e Only		
elinquished	by: (Signa	ture)	Date 2-2	Time Received by: (Signature) Lo-2020 1325 Raum Lopus	Date	7/20	Time	30		T1 AVG T		M		T2			<u>T3</u>	
ample Matri	x: S - Soil, Sd	- Solid, S g - S	Sludge, A - Aq	ueous, O - Other		ner Typ							mher	glac	s v - \	/04		





Analytical Report

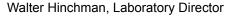
Report Summary

Client: WPX (Carlsbad)

Samples Received: 1/24/2020 Job Number: 04108-0639 Work Order: P001076

Project Name/Location: RDU 12 (2RP-4095)

Report Reviewed By:	Walter Honderson	Date:	1/30/20	
-				





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

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com

24 Hour Emergency Response Phone (800) 362-1879



5315 Buena Vista Dr Project Number: 04108-0639 Reported: Carlsbad NM, 88220 Project Manager: Joseph Hernandez 01/30/20 13:41

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
TT1 @ 2'	P001076-01A	Soil	01/22/20	01/24/20	Glass Jar, 4 oz.
TT1 @ 12'	P001076-02A	Soil	01/22/20	01/24/20	Glass Jar, 4 oz.
TT2 @ 2'	P001076-03A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
TT2 @ 4'	P001076-04A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
TT3 @ 2'	P001076-05A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
TT3 @ 4'	P001076-06A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
AH 1 @ 2'	P001076-07A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
AH 1 @ 4'	P001076-08A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
AH 2 @ 2'	P001076-09A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
AH 2 @ 4'	P001076-10A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
AH 3 @ 2'	P001076-11A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
AH 3 @ 4'	P001076-12A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
AH 4 @ 2'	P001076-13A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
AH 4 @ 4'	P001076-14A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com

5315 Buena Vista Dr Project Number: 04108-0639 Reported:
Carlsbad NM, 88220 Project Manager: Joseph Hernandez 01/30/20 13:41

TT1 @ 2' P001076-01 (Solid)

		P0010	76-01 (Solid)					
		Reporting						
Analyte	Result	Limit	Units Diluti	on Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: Toluene-d8		96.2 %	70-130	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: Bromofluorobenzene		91.6 %	70-130	2005016	01/28/20	01/28/20	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/0	ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	2005012	01/27/20	01/28/20	EPA 8015D	
Surrogate: n-Nonane		89.6 %	50-200	2005012	01/27/20	01/28/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: Toluene-d8		96.2 %	70-130	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: Bromofluorobenzene		91.6 %	70-130	2005016	01/28/20	01/28/20	EPA 8015D	
Anions by 300.0/9056A								
Chloride	1360	100	mg/kg 5	2005019	01/28/20	01/28/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com



5315 Buena Vista Dr Project Number: 04108-0639 Reported: Carlsbad NM, 88220 Project Manager: Joseph Hernandez 01/30/20 13:41

TT1 @ 12' P001076-02 (Solid)

			76-02 (Solid)					
		Reporting						
Analyte	Result	Limit	Units Dilu	tion Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: Toluene-d8		98.3 %	70-130	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: Bromofluorobenzene		92.4 %	70-130	2005016	01/28/20	01/28/20	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/O	RO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	2005012	01/27/20	01/28/20	EPA 8015D	
Surrogate: n-Nonane		90.7 %	50-200	2005012	01/27/20	01/28/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: Toluene-d8		98.3 %	70-130	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: Bromofluorobenzene		92.4 %	70-130	2005016	01/28/20	01/28/20	EPA 8015D	
Anions by 300.0/9056A								
Chloride	ND	100	mg/kg 5	2005019	01/28/20	01/28/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



5315 Buena Vista Dr Project Number: 04108-0639 Reported: 01/30/20 13:41 Carlsbad NM, 88220 Project Manager: Joseph Hernandez

> TT2 @ 2' P001076-03 (Solid)

			/0-03 (Solic	1)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg 1		2005016	01/28/20	01/28/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1		2005016	01/28/20	01/28/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1		2005016	01/28/20	01/28/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1		2005016	01/28/20	01/28/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1		2005016	01/28/20	01/28/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1		2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-13	0	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: Toluene-d8		96.5 %	70-13	0	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: Bromofluorobenzene		90.5 %	70-13	0	2005016	01/28/20	01/28/20	EPA 8260B	
Nonhalogenated Organics by 8015 - DR	O/ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1		2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1		2005012	01/27/20	01/28/20	EPA 8015D	
Surrogate: n-Nonane		88.7 %	50-20	0	2005012	01/27/20	01/28/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GR	0								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-13	0	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: Toluene-d8		96.5 %	70-13	0	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: Bromofluorobenzene		90.5 %	70-13	0	2005016	01/28/20	01/28/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	36.0	20.0	mg/kg 1		2005019	01/28/20	01/28/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



5315 Buena Vista Dr Project Number: 04108-0639 Reported: 01/30/20 13:41 Carlsbad NM, 88220 Project Manager: Joseph Hernandez

TT2 @ 4' P001076-04 (Solid)

		F 0010	/0-04 (S011a)					
		Reporting						
Analyte	Result	Limit	Units D	ilution Batcl	n Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	20050	16 01/28/20	01/28/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	20050	16 01/28/20	01/28/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	20050	16 01/28/20	01/28/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	20050	16 01/28/20	01/28/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	20050	16 01/28/20	01/28/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	20050	16 01/28/20	01/28/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	20050	16 01/28/20	01/28/20	EPA 8260B	
Surrogate: Toluene-d8		96.7 %	70-130	20050	16 01/28/20	01/28/20	EPA 8260B	
Surrogate: Bromofluorobenzene		91.1 %	70-130	20050	16 01/28/20	01/28/20	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/O	RO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	20050	12 01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	20050	12 01/27/20	01/28/20	EPA 8015D	
Surrogate: n-Nonane		87.9 %	50-200	20050	12 01/27/20	01/28/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	20050	16 01/28/20	01/28/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	20050	16 01/28/20	01/28/20	EPA 8015D	
Surrogate: Toluene-d8		96.7 %	70-130	20050	16 01/28/20	01/28/20	EPA 8015D	
Surrogate: Bromofluorobenzene		91.1 %	70-130	20050	16 01/28/20	01/28/20	EPA 8015D	
Anions by 300.0/9056A								
Chloride	108	100	mg/kg 5	20050	19 01/28/20	01/28/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



5315 Buena Vista Dr Project Number: 04108-0639 Reported: Carlsbad NM, 88220 Project Manager: Joseph Hernandez 01/30/20 13:41

TT3 @ 2' P001076-05 (Solid)

			76-05 (Solid)					
		Reporting						
Analyte	Result	Limit	Units Dilu	tion Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: Toluene-d8		96.9 %	70-130	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: Bromofluorobenzene		91.3 %	70-130	2005016	01/28/20	01/28/20	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/O	RO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	2005012	01/27/20	01/28/20	EPA 8015D	
Surrogate: n-Nonane		76.9 %	50-200	2005012	01/27/20	01/28/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: Toluene-d8		96.9 %	70-130	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: Bromofluorobenzene		91.3 %	70-130	2005016	01/28/20	01/28/20	EPA 8015D	
Anions by 300.0/9056A								
Chloride	891	40.0	mg/kg 2	2005019	01/28/20	01/28/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

5315 Buena Vista DrProject Number:04108-0639Reported:Carlsbad NM, 88220Project Manager:Joseph Hernandez01/30/20 13:41

TT3 @ 4' P001076-06 (Solid)

			76-06 (Solid)					
		Reporting						
Analyte	Result	Limit	Units Dilu	ution Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: Toluene-d8		96.4 %	70-130	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: Bromofluorobenzene		88.5 %	70-130	2005016	01/28/20	01/28/20	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/O	RO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	2005012	01/27/20	01/28/20	EPA 8015D	
Surrogate: n-Nonane		85.5 %	50-200	2005012	01/27/20	01/28/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: Toluene-d8		96.4 %	70-130	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: Bromofluorobenzene		88.5 %	70-130	2005016	01/28/20	01/28/20	EPA 8015D	
Anions by 300.0/9056A								
Chloride	ND	100	mg/kg 5	2005019	01/28/20	01/28/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



5315 Buena Vista DrProject Number:04108-0639Reported:Carlsbad NM, 88220Project Manager:Joseph Hernandez01/30/20 13:41

AH 1 @ 2' P001076-07 (Solid)

			76-07 (Solid)					
		Reporting						
Analyte	Result	Limit	Units Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: Toluene-d8		95.2 %	70-130	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: Bromofluorobenzene		89.4 %	70-130	2005016	01/28/20	01/28/20	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/	ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	2005012	01/27/20	01/28/20	EPA 8015D	
Surrogate: n-Nonane		89.8 %	50-200	2005012	01/27/20	01/28/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: Toluene-d8		95.2 %	70-130	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: Bromofluorobenzene		89.4 %	70-130	2005016	01/28/20	01/28/20	EPA 8015D	
Anions by 300.0/9056A								
Chloride	222	100	mg/kg 5	2005019	01/28/20	01/28/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



5315 Buena Vista DrProject Number:04108-0639Reported:Carlsbad NM, 88220Project Manager:Joseph Hernandez01/30/20 13:41

AH 1 @ 4' P001076-08 (Solid)

		P0010	76-08 (Solid)					
		Reporting						
Analyte	Result	Limit	Units Diluti	on Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: Toluene-d8		96.8 %	70-130	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: Bromofluorobenzene		90.2 %	70-130	2005016	01/28/20	01/28/20	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO	D/ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	2005012	01/27/20	01/28/20	EPA 8015D	
Surrogate: n-Nonane		89.4 %	50-200	2005012	01/27/20	01/28/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO)							
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: Toluene-d8		96.8 %	70-130	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: Bromofluorobenzene		90.2 %	70-130	2005016	01/28/20	01/28/20	EPA 8015D	
Anions by 300.0/9056A								
Chloride	302	100	mg/kg 5	2005019	01/28/20	01/28/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



5315 Buena Vista Dr Project Number: 04108-0639 Reported: Carlsbad NM, 88220 Project Manager: Joseph Hernandez 01/30/20 13:41

AH 2 @ 2' P001076-09 (Solid)

			76-09 (Solid)					
		Reporting						
Analyte	Result	Limit	Units Dilutio	on Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	2005016	01/28/20	01/29/20	EPA 8260B	
Surrogate: Toluene-d8		95.9 %	70-130	2005016	01/28/20	01/29/20	EPA 8260B	
Surrogate: Bromofluorobenzene		89.5 %	70-130	2005016	01/28/20	01/29/20	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/O	RO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	2005012	01/27/20	01/28/20	EPA 8015D	
Surrogate: n-Nonane		87.8 %	50-200	2005012	01/27/20	01/28/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	2005016	01/28/20	01/29/20	EPA 8015D	
Surrogate: Toluene-d8		95.9 %	70-130	2005016	01/28/20	01/29/20	EPA 8015D	
Surrogate: Bromofluorobenzene		89.5 %	70-130	2005016	01/28/20	01/29/20	EPA 8015D	
Anions by 300.0/9056A								
Chloride	ND	100	mg/kg 5	2005019	01/28/20	01/28/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com



5315 Buena Vista Dr Project Number: 04108-0639 Reported: 01/30/20 13:41 Carlsbad NM, 88220 Project Manager: Joseph Hernandez

AH 2 @ 4' P001076-10 (Solid)

			70-10 (Sulu)					
		Reporting						
Analyte	Result	Limit	Units D	ilution Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	200501	6 01/28/20	01/29/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	200501	6 01/28/20	01/29/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	200501	6 01/28/20	01/29/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	200501	6 01/28/20	01/29/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	200501	6 01/28/20	01/29/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	200501	6 01/28/20	01/29/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		111 %	70-130	200501	6 01/28/20	01/29/20	EPA 8260B	
Surrogate: Toluene-d8		97.3 %	70-130	200501	6 01/28/20	01/29/20	EPA 8260B	
Surrogate: Bromofluorobenzene		91.0 %	70-130	200501	6 01/28/20	01/29/20	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/O	RO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	200501	2 01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	200501	2 01/27/20	01/28/20	EPA 8015D	
Surrogate: n-Nonane		90.5 %	50-200	200501	2 01/27/20	01/28/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	200501	6 01/28/20	01/29/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		111 %	70-130	200501	6 01/28/20	01/29/20	EPA 8015D	
Surrogate: Toluene-d8		97.3 %	70-130	200501	6 01/28/20	01/29/20	EPA 8015D	
Surrogate: Bromofluorobenzene		91.0 %	70-130	200501	6 01/28/20	01/29/20	EPA 8015D	
Anions by 300.0/9056A								
Chloride	ND	100	mg/kg 5	200501	9 01/28/20	01/28/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com



5315 Buena Vista Dr Project Number: 04108-0639 Reported:
Carlsbad NM, 88220 Project Manager: Joseph Hernandez 01/30/20 13:41

AH 3 @ 2' P001076-11 (Solid)

			76-11 (Solid)					
		Reporting						
Analyte	Result	Limit	Units Dilu	tion Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	2005016	01/28/20	01/29/20	EPA 8260B	
Surrogate: Toluene-d8		96.2 %	70-130	2005016	01/28/20	01/29/20	EPA 8260B	
Surrogate: Bromofluorobenzene		90.3 %	70-130	2005016	01/28/20	01/29/20	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/O	RO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	2005012	01/27/20	01/28/20	EPA 8015D	
Surrogate: n-Nonane		84.6 %	50-200	2005012	01/27/20	01/28/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	2005016	01/28/20	01/29/20	EPA 8015D	
Surrogate: Toluene-d8		96.2 %	70-130	2005016	01/28/20	01/29/20	EPA 8015D	
Surrogate: Bromofluorobenzene		90.3 %	70-130	2005016	01/28/20	01/29/20	EPA 8015D	
Anions by 300.0/9056A								
Chloride	ND	100	mg/kg 5	2005019	01/28/20	01/28/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



5315 Buena Vista Dr Project Number: 04108-0639 Reported: Carlsbad NM, 88220 Project Manager: Joseph Hernandez 01/30/20 13:41

AH 3 @ 4' P001076-12 (Solid)

		P0010	76-12 (Solid)					
		Reporting						
Analyte	Result	Limit	Units Diluti	on Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		109 %	70-130	2005016	01/28/20	01/29/20	EPA 8260B	
Surrogate: Toluene-d8		97.7 %	70-130	2005016	01/28/20	01/29/20	EPA 8260B	
Surrogate: Bromofluorobenzene		89.6 %	70-130	2005016	01/28/20	01/29/20	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO	ORO .							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	2005012	01/27/20	01/29/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	2005012	01/27/20	01/29/20	EPA 8015D	
Surrogate: n-Nonane		91.3 %	50-200	2005012	01/27/20	01/29/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		109 %	70-130	2005016	01/28/20	01/29/20	EPA 8015D	
Surrogate: Toluene-d8		97.7 %	70-130	2005016	01/28/20	01/29/20	EPA 8015D	
Surrogate: Bromofluorobenzene		89.6 %	70-130	2005016	01/28/20	01/29/20	EPA 8015D	
Anions by 300.0/9056A								
Chloride	ND	100	mg/kg 5	2005019	01/28/20	01/29/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



5315 Buena Vista Dr Project Number: 04108-0639 Reported: 01/30/20 13:41 Carlsbad NM, 88220 Project Manager: Joseph Hernandez

AH 4 @ 2' P001076-13 (Solid)

		PUUIU	/0-13 (Solia)					
		Reporting						
Analyte	Result	Limit	Units Dil	ution Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		111 %	70-130	2005016	01/28/20	01/29/20	EPA 8260B	
Surrogate: Toluene-d8		95.8 %	70-130	2005016	01/28/20	01/29/20	EPA 8260B	
Surrogate: Bromofluorobenzene		90.1 %	70-130	2005016	01/28/20	01/29/20	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/O	RO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	2005012	01/27/20	01/29/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	2005012	01/27/20	01/29/20	EPA 8015D	
Surrogate: n-Nonane		92.8 %	50-200	2005012	01/27/20	01/29/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		111 %	70-130	2005016	01/28/20	01/29/20	EPA 8015D	
Surrogate: Toluene-d8		95.8 %	70-130	2005016	01/28/20	01/29/20	EPA 8015D	
Surrogate: Bromofluorobenzene		90.1 %	70-130	2005016	01/28/20	01/29/20	EPA 8015D	
Anions by 300.0/9056A								
Chloride	ND	20.0	mg/kg 1	2005019	01/28/20	01/29/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com



5315 Buena Vista Dr Project Number: 04108-0639 Reported: 01/30/20 13:41 Carlsbad NM, 88220 Project Manager: Joseph Hernandez

AH 4 @ 4' P001076-14 (Solid)

		F 0010	/6-14 (Solia)					
		Reporting						
Analyte	Result	Limit	Units Dilu	tion Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		109 %	70-130	2005016	01/28/20	01/29/20	EPA 8260B	
Surrogate: Toluene-d8		96.2 %	70-130	2005016	01/28/20	01/29/20	EPA 8260B	
Surrogate: Bromofluorobenzene		89.9 %	70-130	2005016	01/28/20	01/29/20	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/O	ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	2005012	01/27/20	01/29/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	2005012	01/27/20	01/29/20	EPA 8015D	
Surrogate: n-Nonane		86.9 %	50-200	2005012	01/27/20	01/29/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	2005016	01/28/20	01/29/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		109 %	70-130	2005016	01/28/20	01/29/20	EPA 8015D	
Surrogate: Toluene-d8		96.2 %	70-130	2005016	01/28/20	01/29/20	EPA 8015D	
Surrogate: Bromofluorobenzene		89.9 %	70-130	2005016	01/28/20	01/29/20	EPA 8015D	
Anions by 300.0/9056A								
Chloride	ND	20.0	mg/kg 1	2005019	01/28/20	01/29/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com



5315 Buena Vista Dr Project Number: 04108-0639 Reported: Carlsbad NM, 88220 Project Manager: Joseph Hernandez 01/30/20 13:41

Volatile Organic Compounds by 8260 - Quality Control

Envirotech Analytical Laboratory

Spike

Reporting

%REC

RPD

I		Reporting		Spike	Source		/orch		KI D	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2005016 - Purge and Trap EPA 503	0A									
Blank (2005016-BLK1)				Prepared &	ኔ Analyzed:	01/28/20 1				
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
o,m-Xylene	ND	0.0500	"							
p-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
'urrogate: 1,2-Dichloroethane-d4	0.546		"	0.500		109	70-130			
Surrogate: Toluene-d8	0.485		"	0.500		97.0	70-130			
Surrogate: Bromofluorobenzene	0.442		"	0.500		88.3	70-130			
LCS (2005016-BS1)				Prepared &	ኔ Analyzed:	01/28/20 1				
Benzene	2.54	0.0250	mg/kg	2.50		102	70-130			
Toluene	2.43	0.0250	"	2.50		97.4	70-130			
Ethylbenzene	2.40	0.0250	"	2.50		96.1	70-130			
o,m-Xylene	5.00	0.0500	"	5.00		100	70-130			
-Xylene	2.38	0.0250	"	2.50		95.1	70-130			
Total Xylenes	7.38	0.0250	"	7.50		98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.532		"	0.500		106	70-130			
Surrogate: Toluene-d8	0.507		"	0.500		101	70-130			
Surrogate: Bromofluorobenzene	0.482		"	0.500		96.4	70-130			
Matrix Spike (2005016-MS1)	Sou	rce: P001076-	01	Prepared &	k Analyzed:	01/28/20 1				
Benzene	2.30	0.0250	mg/kg	2.50	ND	92.2	48-131			
Toluene	2.17	0.0250	"	2.50	ND	86.9	48-130			
Ethylbenzene	2.15	0.0250	"	2.50	ND	86.1	45-135			
,m-Xylene	4.48	0.0500	"	5.00	ND	89.5	43-135			
o-Xylene	2.13	0.0250	"	2.50	ND	85.1	43-135			
Total Xylenes	6.60	0.0250	"	7.50	ND	88.0	43-135			
Eurrogate: 1,2-Dichloroethane-d4	0.537		"	0.500		107	70-130			
Gurrogate: Toluene-d8	0.497		"	0.500		99.3	70-130			
Surrogate: Bromofluorobenzene	0.475		"	0.500		95.0	70-130			
Matrix Spike Dup (2005016-MSD1)	Sou	rce: P001076-	-01	Prepared &	ል Analyzed:	01/28/20 1				
Benzene	2.46	0.0250	mg/kg	2.50	ND	98.6	48-131	6.69	23	
Toluene	2.33	0.0250	"	2.50	ND	93.1	48-130	6.98	24	
Ethylbenzene	2.31	0.0250	"	2.50	ND	92.2	45-135	6.84	27	
o,m-Xylene	4.78	0.0500	"	5.00	ND	95.5	43-135	6.47	27	
-Xylene	2.28	0.0250	"	2.50	ND	91.0	43-135	6.75	27	
Total Xylenes	7.05	0.0250	"	7.50	ND	94.0	43-135	6.56	27	
urrogate: 1,2-Dichloroethane-d4	0.533		"	0.500		107	70-130			
Gurrogate: Toluene-d8	0.498		"	0.500		99.5	70-130			
G . D . G . I	0.406		,,	0.500		07.3	70 120			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

0.500

97.2

70-130

0.486

5796 Highway 64, Farmington, NM 87401

Surrogate: Bromofluorobenzene

Ph (505) 632-0615 Fx (505) 632-1865



5315 Buena Vista DrProject Number:04108-0639Reported:Carlsbad NM, 88220Project Manager:Joseph Hernandez01/30/20 13:41

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2005012 - DRO Extraction EPA 3570										
Blank (2005012-BLK1)				Prepared: (01/27/20 1	Analyzed: 0	01/29/20 0			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	54.6		"	50.0		109	50-200			
LCS (2005012-BS1)				Prepared: (01/27/20 1	Analyzed: 0	01/29/20 0			
Diesel Range Organics (C10-C28)	443	25.0	mg/kg	500		88.7	38-132			
Surrogate: n-Nonane	47.2		"	50.0		94.4	50-200			
Matrix Spike (2005012-MS1)	Sou	rce: P001075-	03	Prepared: (01/27/20 1	Analyzed: 0	01/28/20 1			
Diesel Range Organics (C10-C28)	481	25.0	mg/kg	500	ND	96.1	38-132			
Surrogate: n-Nonane	48.9		"	50.0		97.7	50-200			
Matrix Spike Dup (2005012-MSD1)	Sou	rce: P001075-	03	Prepared: (01/27/20 1	Analyzed: 0	01/28/20 1			
Diesel Range Organics (C10-C28)	464	25.0	mg/kg	500	ND	92.8	38-132	3.50	20	
Surrogate: n-Nonane	47.8		"	50.0		95.5	50-200			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com

24 Hour Emergency Response Phone (800) 362-1879

RPD



WPX (Carlsbad) Project Name: RDU 12 (2RP-4095)

0.472

5315 Buena Vista Dr Project Number: 04108-0639 Reported: Carlsbad NM, 88220 Project Manager: Joseph Hernandez 01/30/20 13:41

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Spike

0.500

Source

%REC

70-130

94.4

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2005016 - Purge and Trap EPA 5030A										
Blank (2005016-BLK1)				Prepared &	Analyzed:	01/28/20 1				
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.546		"	0.500		109	70-130			
Surrogate: Toluene-d8	0.485		"	0.500		97.0	70-130			
Surrogate: Bromofluorobenzene	0.442		"	0.500		88.3	70-130			
LCS (2005016-BS2)				Prepared &	Analyzed:	01/28/20 1				
Gasoline Range Organics (C6-C10)	46.1	20.0	mg/kg	50.0		92.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.537		"	0.500		107	70-130			
Surrogate: Toluene-d8	0.506		"	0.500		101	70-130			
Surrogate: Bromofluorobenzene	0.465		"	0.500		92.9	70-130			
Matrix Spike (2005016-MS2)	Sourc	e: P001076-	01	Prepared &	Analyzed:	01/28/20 1				
Gasoline Range Organics (C6-C10)	43.4	20.0	mg/kg	50.0	ND	86.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.528		"	0.500		106	70-130			
Surrogate: Toluene-d8	0.497		"	0.500		99.3	70-130			
Surrogate: Bromofluorobenzene	0.466		"	0.500		93.2	70-130			
Matrix Spike Dup (2005016-MSD2)	Sourc	e: P001076-	01	Prepared &	Analyzed:	01/28/20 1				
Gasoline Range Organics (C6-C10)	44.6	20.0	mg/kg	50.0	ND	89.2	70-130	2.61	20	
Surrogate: 1,2-Dichloroethane-d4	0.501		"	0.500		100	70-130			
Surrogate: Toluene-d8	0.503		"	0.500		101	70-130			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

 ${\it Surrogate: Bromofluor obenzene}$

Ph (505) 632-0615 Fx (505) 632-1865

RPD

%REC



WPX (Carlsbad) Project Name: RDU 12 (2RP-4095)

5315 Buena Vista DrProject Number:04108-0639Reported:Carlsbad NM, 88220Project Manager:Joseph Hernandez01/30/20 13:41

Reporting

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Spike

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch 2005019 - Anion Extraction EPA 300	0.0/9056A										
Blank (2005019-BLK1)				Prepared &	Analyzed:	01/28/20 1					
Chloride	ND	20.0	mg/kg								
LCS (2005019-BS1)				Prepared &	Analyzed:	01/28/20 1					
Chloride	254	20.0	mg/kg	250		102	90-110				
Matrix Spike (2005019-MS1)	Source	e: P001076-	01	Prepared &	Analyzed:	01/28/20 1					
Chloride	1600	100	mg/kg	250	1360	96.3	80-120				
Matrix Spike Dup (2005019-MSD1)	Source	Source: P001076-01 Prepared & Analyzed: 01/28/20 1									
Chloride	1620	100	mg/kg	250	1360	104	80-120	1.26	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 my differ slightly.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401 Ph (505) 632-0615 Fx (505) 632-1865 envirotech-inc.com

24 Hour Emergency Response Phone (800) 362-1879 Labadmin@envirotech-inc.com



5315 Buena Vista Dr Project Number: 04108-0639 Reported:
Carlsbad NM, 88220 Project Manager: Joseph Hernandez 01/30/20 13:41

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

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

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

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com

24 Hour Emergency Response Phone (800) 362-1879

Client: W/X		Chain of C Report Attention	ustody	Sec.		15	b Use Only TAT						Pa	Page of C		
Project: RDU 12/289-4	1095)	Report due by: Standard T	-/A	Lob	WO#	-	ט ט	Job I		hor	HESEVO I	3D	RCRA	CWA	SDWA	
Project Manager: Toseph He	chande?	Attention:	/ 🙈		010		·	Charles at 200		-063	2000	30	NCNA	CVVA	SUVVA	
Address: P. O Box 62228	TO THE REAL PROPERTY.	Address:			OIO	IW				nd Meth				Sta	ato o	
City, State, Zip	- CAL PERSON	City, State, Zip		2	2			Titalys	iis ai	14 Meti	T	Т			UT A	
Phone:	20200000	Phone:		801	801				0	Uz	9			IVIVI CO	OT A	
Email: Lynda @ WPX		Email: 108eph @ etecher	est. (12 mag) by	by C	3021	260	010	300.	S S				X	-	
Time Date No.		Elilali. Josephia effecties	Lab	ORC	/DRC	by 8	by 8	ls 60	ide	25				/ 4		
Sampled Sampled Matrix Containers	Sample ID		Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	COST				Rem	narks	
1:45pm 1.22.20 5 1	TTI	@ 2'	1							X					-	
2:20pm 1.22:20 (1	TTI	a 12'	2						1							
10:45 am 1-23-20 1	TTZ (۵ z ′	3													
10:50 am 1-23-20 / 1	TT 2 (۵ 4'	4	Ħ												
11:15an 1	TT3 @	2'	5													
11:20an /) /	TT3 @	9 4 '	le						U							
2:00 pm /	AH 1 (0	2'	7													
12:05pm	AHI G	9 '	8												E	
12:10 pm	AH 2 (o z'	9													
12:15pm	AHZ (9 4'	10							1						
Additional Instructions:																
I, (field sampler), attest to the validity and authentici			e sample location	, date o	or			(A)						ce the day they a	WERNING STREET, STORT OF THE S	
time of collection is considered fraud and may be gr Relinquished by: (Signature) Date	- I		Date		Time	_		No. of the last of							W.	
		Received by: (Signature)	1.23.2	יבוני			2	Reco	ivor	d on ice			e Only			
Refinquished by: (Signature) Date	23.26 4:10 p	Received by: (Signature)	Date	w CL	Time	0/1							IN	T3		
	24.2020 1915		1/24/2	D		:30	S	AVG	Ten	np °C_	4			13		
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other							, p -	poly/	plast	tic, ag -	ambe	r glass	, v - VOA			
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samp					to cli	ent or	dispo	sed of	at the	client ex	pense.	The rep	ort for the	analysis of t	he above	
samples is applicable only to those samples re																

envirotech
Analytical Laboratory

5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com aboratory@envirotech-inc.com

Project Information Client:	Chain of Co Report Attention	ıstody			La	b Use	Only		TAT	P. E	PA Progr	of 2
Project:	Report due by: Standard	TAT	Lab \	WO#				umber	1D 3D	RCRA	CWA	SDWA
Project Manager:	Attention:		P									
Address:	Address:					An	alysis	and Meth	nod		St	ate
City, State, Zip	City, State, Zip		015	015				,) >	.		NM CO	ate UT A
Phone:	Phone:		by 8	рγ 8(121	00	0 9				X	
Email: Lynda WPX	Email: Joseph (etche		80	NO.	ολ 80	y 82(601				/\	
Time Date Sampled Sampled Matrix No Containers Sample ID		Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	8GDO			Ren	narks
12:20pm 1.2320 S 1 AH 3	@ 2'	11						X			F-2 EV.	
12:25m 1 5 1 AH 3	Q 41	12]				
12:50pm 5 1 AH 4	@ 2'	13										
12:35pm V 5 1 AH 4	1 6 41	14						1				
							8					
							1					
							+					74.
Additional Instructions:												
, (field sampler), attest to the validity and authenticity of this sample. I am a	70 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	e sample location	n, date o	r					preservation must			
Relinquished by: (Signature) Date Time	Received by: (Signature)	Date		Time					lahl	Isa Only		Alexander and a second
	10 pm	1-23.2	- 1	/	610	,	ocois	ed on ice		Ise Only		
Refinquished by: (Signature) Date Time	Received by: (Signature)	Date		Time	0/0	<u></u>	1	rea on ice	T2	IN	T3	
	15 Daina Lanon	1/24/2			30		VG T	emp °C	4		. 13	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Oth							AND DESCRIPTION OF THE PERSON		amber gla	ss, v - VO	4	
Note: Samples are discarded 30 days after results are reported unl												the ahove

envirotech
Analytical Laboratory

5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 Fr (800) 362-1879



Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 2/27/2020 Job Number: 04108-0639 Work Order: P002090

Project Name/Location: RDU 12 (2RP-4095)

Walter Hinchman, Laboratory Director



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

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com



5315 Buena Vista Dr Project Number: 04108-0639 Carlsbad NM, 88220 Project Manager: Lynda Laumbach

Reported: 02/28/20 13:35

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
AH5 @ 2'	P002090-01A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH5 @ 4'	P002090-02A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH6 @ 2'	P002090-03A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH6 @ 4'	P002090-04A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH7 @ 2'	P002090-05A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH7 @ 4'	P002090-06A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com



5315 Buena Vista Dr Project Number: 04108-0639 Reported: Carlsbad NM, 88220 Project Manager: Lynda Laumbach 02/28/20 13:35

AH5 @ 2' P002090-01 (Solid)

		P0020	90-01 (Solid)					
		Reporting						
Analyte	Result	Limit	Units D	ilution Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021								
Benzene	ND	0.0250	mg/kg 1	200903	0 02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1	200903	0 02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg 1	200903	0 02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg 1	200903	0 02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg 1	200903	0 02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg 1	200903	0 02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		106 %	50-150	200903	0 02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/O	ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	200902	9 02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	200902	9 02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		90.6 %	50-200	200902	9 02/27/20	02/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	200903	0 02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.6 %	50-150	200903	0 02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A								
Chloride	ND	100	mg/kg 5	200903	1 02/27/20	02/27/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



5315 Buena Vista Dr Project Number: 04108-0639 Reported: Carlsbad NM, 88220 Project Manager: Lynda Laumbach 02/28/20 13:35

AH5 @ 4' P002090-02 (Solid)

		P0020	90-02 (Soli	a)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %	50-1	50	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		91.7 %	50-2	00	2009029	02/27/20	02/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.5 %	50-1	50	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	178	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



5315 Buena Vista DrProject Number:04108-0639Reported:Carlsbad NM, 88220Project Manager:Lynda Laumbach02/28/20 13:35

AH6 @ 2' P002090-03 (Solid)

		P0020	90-03 (Solia)					
		Reporting						
Analyte	Result	Limit	Units Dilu	ution Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021								
Benzene	ND	0.0250	mg/kg 1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg 1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg 1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg 1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg 1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %	50-150	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/6	ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		94.7 %	50-200	2009029	02/27/20	02/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.0 %	50-150	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A								
Chloride	173	100	mg/kg 5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com



5315 Buena Vista DrProject Number:04108-0639Reported:Carlsbad NM, 88220Project Manager:Lynda Laumbach02/28/20 13:35

AH6 @ 4' P002090-04 (Solid)

		P0020	90-04 (Solid)					
		Reporting						
Analyte	Result	Limit	Units D	ilution Batc	h Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021								
Benzene	ND	0.0250	mg/kg 1	20090	30 02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1	20090	30 02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg 1	20090	30 02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg 1	20090	30 02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg 1	20090	30 02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg 1	20090	30 02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %	50-150	20090	30 02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/O	ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	20090	29 02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	20090	29 02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		95.4 %	50-200	20090	29 02/27/20	02/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	20090	30 02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.8 %	50-150	20090	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A								
Chloride	155	100	mg/kg 5	20090	31 02/27/20	02/27/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com



5315 Buena Vista DrProject Number:04108-0639Reported:Carlsbad NM, 88220Project Manager:Lynda Laumbach02/28/20 13:35

AH7 @ 2' P002090-05 (Solid)

			90-05 (Soli	id)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %	50-1	50	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	O/ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		87.3 %	50-2	200	2009029	02/27/20	02/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO)								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.6 %	50-1	50	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	212	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com

24 Hour Emergency Response Phone (800) 362-1879



5315 Buena Vista Dr Project Number: 04108-0639 Reported: Carlsbad NM, 88220 Project Manager: Lynda Laumbach 02/28/20 13:35

AH7 @ 4' P002090-06 (Solid)

		P0020	90-06 (Solia)					
		Reporting						
Analyte	Result	Limit	Units Dil	ution Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021								
Benzene	ND	0.0250	mg/kg 1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg 1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg 1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg 1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg 1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50-150	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/	ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		93.5 %	50-200	2009029	02/27/20	02/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.0 %	50-150	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A								
Chloride	142	100	mg/kg 5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com



5315 Buena Vista Dr Project Number: 04108-0639 Reported: Carlsbad NM, 88220 Project Manager: Lynda Laumbach 02/28/20 13:35

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2009030 - Purge and Trap EPA 5030A										
Blank (2009030-BLK1)				Prepared: (02/27/20 0 A	Analyzed: 0	2/27/20 1			
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.34		"	8.00		104	50-150			
LCS (2009030-BS1)				Prepared: (02/27/20 0 A	Analyzed: 0	2/27/20 1			
Benzene	4.94	0.0250	mg/kg	5.00		98.7	70-130			
Toluene	4.94	0.0250	"	5.00		98.8	70-130			
Ethylbenzene	4.93	0.0250	"	5.00		98.6	70-130			
p,m-Xylene	9.84	0.0500	"	10.0		98.4	70-130			
o-Xylene	4.93	0.0250	"	5.00		98.6	70-130			
Total Xylenes	14.8	0.0250	"	15.0		98.5	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.42		"	8.00		105	50-150			
Matrix Spike (2009030-MS1)	Sou	Source: P002090-01 Prepared: 02/27/20 0 Analyzed: 02/27/20 1								
Benzene	4.96	0.0250	mg/kg	5.00	ND	99.1	54.3-133			
Toluene	4.96	0.0250	"	5.00	ND	99.2	61.4-130			
Ethylbenzene	4.96	0.0250	"	5.00	ND	99.1	61.4-133			
p,m-Xylene	9.90	0.0500	"	10.0	ND	99.0	63.3-131			
o-Xylene	4.96	0.0250	"	5.00	ND	99.3	63.3-131			
Total Xylenes	14.9	0.0250	"	15.0	ND	99.1	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.40		"	8.00		105	50-150			
Matrix Spike Dup (2009030-MSD1)	Sou	rce: P002090-	01	Prepared: (02/27/20 0 A	Analyzed: 0	2/27/20 1			
Benzene	5.11	0.0250	mg/kg	5.00	ND	102	54.3-133	3.13	20	
Toluene	5.09	0.0250	"	5.00	ND	102	61.4-130	2.55	20	
Ethylbenzene	5.07	0.0250	"	5.00	ND	101	61.4-133	2.31	20	
p,m-Xylene	10.1	0.0500	"	10.0	ND	101	63.3-131	2.15	20	
o-Xylene	5.07	0.0250	"	5.00	ND	101	63.3-131	2.20	20	
Total Xylenes	15.2	0.0250	"	15.0	ND	101	0-200	2.17	200	
Surrogate: 4-Bromochlorobenzene-PID	8.44		"	8.00		105	50-150			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com

24 Hour Emergency Response Phone (800) 362-1879



5315 Buena Vista DrProject Number:04108-0639Reported:Carlsbad NM, 88220Project Manager:Lynda Laumbach02/28/20 13:35

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2009029 - DRO Extraction EPA 3570										
Blank (2009029-BLK1)				Prepared: ()2/27/20 0 A	Analyzed: 0	2/27/20 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	46.1		"	50.0		92.2	50-200			
LCS (2009029-BS1)				Prepared: (02/27/20 0 A	Analyzed: 0	2/27/20 1			
Diesel Range Organics (C10-C28)	453	25.0	mg/kg	500		90.6	38-132			
Surrogate: n-Nonane	47.5		"	50.0		95.0	50-200			
Matrix Spike (2009029-MS1)	Sour	rce: P002090-	01	Prepared: (02/27/20 0 A	Analyzed: 0	2/27/20 1			
Diesel Range Organics (C10-C28)	462	25.0	mg/kg	500	ND	92.4	38-132			
Surrogate: n-Nonane	48.3		"	50.0		96.5	50-200			
Matrix Spike Dup (2009029-MSD1)	Sour	rce: P002090-	01	Prepared: (02/27/20 0 A	Analyzed: 0	2/27/20 1			
Diesel Range Organics (C10-C28)	466	25.0	mg/kg	500	ND	93.2	38-132	0.836	20	
Surrogate: n-Nonane	48.6		"	50.0		97.2	50-200			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



5315 Buena Vista DrProject Number:04108-0639Reported:Carlsbad NM, 88220Project Manager:Lynda Laumbach02/28/20 13:35

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Spike

Source

%REC

RPD

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2009030 - Purge and Trap EPA 5030A										
Blank (2009030-BLK1)				Prepared: (02/27/20 0	Analyzed: 0	2/27/20 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		"	8.00		94.1	50-150			
LCS (2009030-BS2)				Prepared: (02/27/20 0	Analyzed: 0	2/27/20 1			
Gasoline Range Organics (C6-C10)	46.6	20.0	mg/kg	50.0		93.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		"	8.00		93.1	50-150			
Matrix Spike (2009030-MS2)	Source	e: P002090-	01	Prepared: (02/27/20 0	Analyzed: 0	2/27/20 1			
Gasoline Range Organics (C6-C10)	46.4	20.0	mg/kg	50.0	ND	92.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		"	8.00		94.2	50-150			
Matrix Spike Dup (2009030-MSD2)	Source	e: P002090-	01	Prepared: (02/27/20 0	Analyzed: 0	2/27/20 1			
Gasoline Range Organics (C6-C10)	47.5	20.0	mg/kg	50.0	ND	94.9	70-130	2.15	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		"	8.00		92.4	50-150			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com

24 Hour Emergency Response Phone (800) 362-1879

RPD

%REC



WPX (Carlsbad) Project Name: RDU 12 (2RP-4095)

5315 Buena Vista DrProject Number:04108-0639Reported:Carlsbad NM, 88220Project Manager:Lynda Laumbach02/28/20 13:35

Reporting

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Spike

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2009031 - Anion Extraction EPA 300.0/9056A										
Blank (2009031-BLK1)		Prepared: 02/27/20 0 Analyzed: 02/27/20 1								
Chloride	ND	20.0	mg/kg							
LCS (2009031-BS1)				Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Chloride	263	20.0	mg/kg	250		105	90-110			
Matrix Spike (2009031-MS1)	Sourc	Source: P002090-01			02/27/20 0 A	Analyzed: 0				
Chloride	331	100	mg/kg	250	ND	132	80-120			M1
Matrix Spike Dup (2009031-MSD1)	Sourc	Source: P002090-01		Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Chloride	324	100	mg/kg	250	ND	130	80-120	2.05	20	M1

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 my differ slightly.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401 Ph (505) 632-0615 Fx (505) 632-1865 envirotech-inc.com

24 Hour Emergency Response Phone (800) 362-1879 Labadmin@envirotech-inc.com



5315 Buena Vista Dr Project Number: 04108-0639 Reported: Carlsbad NM, 88220 Project Manager: Lynda Laumbach 02/28/20 13:35

Notes and Definitions

Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable. M1

Analyte NOT DETECTED at or above the reporting limit ND

Not Reported NR

RPD Relative Percent Difference

Methods marked with ** are non-accredited methods.

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

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com

24 Hour Emergency Response Phone (800) 362-1879

Page 13 of 14

2 (2).													Pagec
ent: DPX	Report Attention		out Play's	la	hlls	e Onl	,	1 470		Т/	AΤ		DA Drogram
101112	t due by:	Lah	WO#			Job N		r	-	1D	177.5	RCRA	CWA
oject Manager: Attent			0020			0110				×	mente		
dress: Addres			002	970		Analys	is and	Met	thod	_	State		
	tate, Zip	-2	2		T i			T	T				NM CO L
one: Phone		801	801			0	\$						0.000
nail: Lynda @ WPX Email:	joseph@etechenv.com	yd C	yd C	8021	260	300.	$ \zeta $	2	Σ	¥			X
Time Date Matrix No Sample ID	J , Lab	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOCINM	1CEQ 1005	BGDOC - NM	BGDOC -			Remar
00pm 2:25:20 5 1 AH5@Z	,			_ us		,	χ,		<u>aa</u>				
15pm 2'25:20 5 1 AH 5 @ Z 15pm 5 1 AH 6 @ Z' 145pm 5 1 AH 6 @ Z' 15pm 5 1 AH 6 @ 4' 15pm 5 1 AH 7 @ Z' 15pm 5 1 AH 7 @ Z'	, 2						X						
130 pm 5 / AH 6 @ 2'	3					,	(
45pm 5 1 AH 6 @ 41	4						X						
00 pm 5 1 AH 7@ 2'	5						X						
15 pm & S / AH 7 @ 41	4						X						
ditional Instructions: # 24 hr	TAT						***************************************						
eld sampler), attest to the validity and authenticity of this sample. I am aware that tampering wi e of collection is considered fraud and may be grounds for legal action. Sampled by:	th or intentionally mislabelling the sample location, date or												e day they are sampled subsequent days.
inquished by: (Signature) Date Time Re 2 - 25 - 20 5 15 30	ceived by: (Signature) Date	.20	Time Lab Use Only Received on ice: Y/ N										
inquished by: (Signature) Date Time Re 2-26-2929 325	Rainh John 1121	160	Time	30		T1 AVG T				Г2			<u>T3</u>
pte Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other e: Samples are discarded 30 days after results are reported unless other arrangemen	Containe	r Tvpe	: g - g	lass. p	- po	lv/plas	tic. ag	- an	nher	place	s v - 1	/OA	

envirotech
Analytical Laboratory

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

Ph (505) 532-1881 Fx (505) 632-1865

envirotech-inc.com

labadmin@envirotech-inc.com

Appendix D Photographic Log

Dates: 01/15/2020 - 02/25/2020

Photo Number:

1

Photo Direction:

Southeast

Photo Description: 2RP-2211 Initial Site Assessment

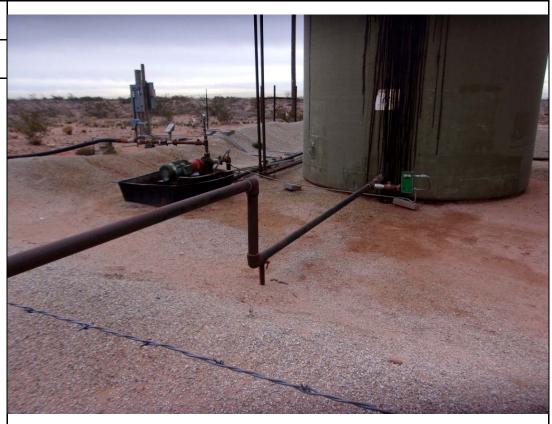


Photo Number:

2

Photo Direction:

Southwest

Photo Description: 2RP-2211 Initial Site Assessment



Dates: 01/15/2020 - 02/25/2020

Photo Number:

3

Photo Direction:

East

Photo Description: 2RP-2211 Initial Site Assessment



Photo Number:

Photo Direction:

Northeast

Photo Description: 2RP-2211 Initial Site Assessment



Dates: 01/15/2020 - 02/25/2020

Photo Number:

5

Photo Direction:

East

Photo Description: 2RP-2211 Following delineation activities



Photo Number:

6

Photo Direction:

Southwest

Photo Description: 2RP-2211 Following continued delineation activities



Dates: 01/15/2020 - 02/25/2020

Photo Number:

1

Photo Direction:

Northeast

Photo Description: 2RP-4095 Initial Site Assessment



Photo Number:

2

Photo Direction:

Southeast

Photo Description: 2RP-4095 Initial Site Assessment



Dates: 01/15/2020 - 02/25/2020

Photo Number:

3

Photo Direction:

West

Photo Description: 2RP-4095 Initial Site Assessment



Photo Number:

4

Photo Direction:

Southwest

Photo Description: 2RP-4095 Following Delineation Activities



Dates: 01/15/2020 - 02/25/2020

Photo Number:

Photo Direction:

West

Photo Description: 2RP-4095 Following delineation activities



Photo Number:

Photo Direction:

East

Photo Description: 2RP-4095 Following continued delineation activities



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

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

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

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

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

CONDITIONS

Action 261713

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	261713
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
michael.buchanan	None	9/6/2023