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-14
Revised August 24, 201
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC	OGRID: 246289
Contact Name: Deborah Watson	Contact Telephone: 575-885-7561
Contact email: deborah.watson@wpxenergy.com	Incident # 2RP-5450
Contact mailing address: 5315 Buena Vista Drive, Carlsbad, NM 88	2220

Location of Release Source

Latitude 32.01059

Longitude -103.87236

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Ross Draw Unit #057					Site Type: Well Pad						
Date Release	Discovered	: May 12, 2019		API# (if applicable) 30-015	-41978						
Unit Letter	Section	Township	Range		County	7					
K	27	26S	30E	Edd	J						
Surface Owne	Surface Owner: State Federal Tribal Private (Name:)										
			Noture or	4 776	lume of Delegge						

Nature and Volume of Release

Materia	l(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)
Crude Oil	Volume Released (bbls) 2	Volume Recovered (bbls) 1.5
Produced Water	Volume Released (bbls) 8	Volume Recovered (bbls) 6.5
	Is the concentration of dissolved chloride in the produced water >10,000 mg/1?	⊠ Yes □ No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release Stuffing box failure-leak recovered.	at wellhead resulted in the release of 10 bbl of product	ion fluids, a truck was called and 8 bbl of fluid were

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Incident ID
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 items must be included in the closure report.

A scaled site and sampling diagram as described in 19	7.15.29.11 NMAC
Photographs of the remediated site prior to backfill or must be notified 2 days prior to liner inspection)	r photos of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropri	ate 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 fi may endanger public health or the environment. The accept should their operations have failed to adequately investigate human health or the environment. In addition, OCD accept compliance with any other federal, state, or local laws and/or restore, reclaim, and re-vegetate the impacted surface area to	l complete to the best of my knowledge and understand that pursuant to OCD rules le certain release notifications and perform corrective actions for releases which tance of a C-141 report by the OCD does not relieve the operator of liability e and remediate contamination that pose a threat to groundwater, surface water, rance of a C-141 report does not relieve the operator of responsibility for our regulations. The responsible party acknowledges they must substantially to the conditions that existed prior to the release or their final land use in to the OCD when reclamation and re-vegetation are complete.
Printed Name: Deborah Watson	Title: HSE Specialist
Signature:	Date: January 15, 2020
email: deborah.watson@wpxenergy.com	Telephone: 575-885-7561
OCD Only	
Received by:	Date:
	ble party of liability should their operations have failed to adequately investigate and surface water, human health, or the environment nor does not relieve the responsible lws and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:



P.O. Box 1708 • Artesia, NM 88211 www.hrlcomp.com

January 15, 2020

Deborah Watson Environmental Specialist - Permian Basin 5315 Buena Vista Dr. Carlsbad, NM 88220

Subject:

Closure Report

2RP-5450

Ross Draw Unit #057 Eddy County, New Mexico

Mrs. Watson:

On behalf of WPX Energy Permian, LLC, HRL Compliance Solutions, Inc. (HRL) is pleased to submit the attached closure report summarizing the closure actions taken in regards to the Ross Draw Unit #57 release. The purpose of the report is to obtain approval from the New Mexico Oil Conservation Division (NMOCD) for the remediation and closure of the release that occurred on May 12, 2019. Table 1 below summarizes information regarding the release.

Table 1: Release Summary

Site Name		Ross Draw Unit #057						
	Lat.	Lat. Long. Unit Letter, Se						
Location			Range					
	32.01059°	-103.87236°	Unit Letter K, Section 27, Township					
			26S, Range 30E					
District RP	2RP-5450							
Date Release Discovered	5/12/2019							
Date Reported	5/15/2019							
Reported To	NMOCD and	BLM via email						
Surface Owner	Federal							
Cause of Release	Stuffing box f	ailure-leak at wel	lhead					
Released Material	Produced Wa	ter and Crude Oil						
Volume Release	8 bbls of Proc	duced Water and	2 bbls of Crude Oil					
Volume Recovered	6.5 bbls of Pr	oduced Water an	d 1.5 bbls of Crude Oil					
Net Release	1.5 bbls of Pr	1.5 bbls of Produced Water and 0.5 bbls of Crude Oil						
Depth To Groundwater	>50 feet belo	>50 feet below ground surface						
Nearest waterway	Red Bluff Res	Red Bluff Reservoir, 4.2 miles southwest of release						



1.0 Initial Response & Notification

A release of 10 bbls of production fluid occurred on May 12, 2019 at the Ross Draw Unit #057 well pad. BLM an NMOCD were notified on May 15, 2019 by Deborah Watson via email. The well pad and pasture are both located on federal property. The cause of the release was due to a stuffing box failure-leak at the wellhead. An estimated 8 bbls of produced water and 2 bbls of crude oil impacted the well pad surface, the adjacent pasture field and the access road. HRL personnel were present on May 14, 2019 to verify that the release had been stabilized. A vacuum truck recovered 6.5 bbls of produced water and 1.5 bbls of crude oil. All free-standing liquids were removed from the impacted area.

2.0 Site Assessment and Characterization

The location of the release is approximately 18.5 miles Southeast of Malaga, New Mexico with an elevation of approximately 3,010 feet above sea level. The well site and the adjacent pasture area are both located on federal land. A site location map is provided on Figure 1. The nearest surface water, Red Bluff reservoir, is located approximately 4.2 miles southwest of the release (Figure 2).

Depth-to-groundwater at the release site is estimated to be greater than 50 feet below ground surface as determined by review of the United States Geological Survey (USGS) National Water Information System. A 3 mile radius search of the USGS National Water Information System revealed 3 water wells with an average depth to groundwater of 92 feet. Figure 2 contains a site location map of water wells relevant to the depth-to-groundwater determination.

An assessment of wetlands and springs was conducted using a USGS topographical 7.5-minute map of Tucker Draw, New Mexico. No wetlands were identified within 300 feet of the release location. There are no springs within 1000 feet of this location. Figure 3 contains the topographic map used for assessment.

The release location is not within an area identified as an unstable karst geology area. An area map generated with data from the USGS displaying geologic units and structural features is shown in Figure

Based on the assessments outlined above the following closure criteria was implemented to remediate the site.

Table 2: Closure Criteria

Depth to Ground Water	Constituent	Limit
	Chloride	600 mg/kg
Greater than 50 feet	TPH (GRO+DRO+MRO)	100 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg



3.0 Soil Remediation

Remedial activity at the Ross Draw Unit #057 consisted of the following actions:

- May 14, 2019- HRL personnel were present at the release location, to assess the impacted areas
 and conduct initial site delineation. GPS data was collected for the impacted area and the
 resulting spill map is shown on Figure 5.
- May 29, 2019- Kelley Oilfield Services began remediation activity by excavating material from
 the well pad area. HRL personnel were onsite to collect field screens, using an electrical
 conductivity (EC) meter, a photoionization detector (PID) unit and Petroflag unit. The field
 screen data results were utilized to guide the excavation to soil concentrations below the limits
 outlined in the NMOCD closure criteria.
- Excavation of the impacted soil on the well pad surface was completed to a total depth of 1 feet below ground surface for a majority of the areas on the well pad. Other impacted areas on the well pad surface were excavated to a total depth of two feet. Total excavation depth of a specific area can be found in the Analytical Summary chart attached as Table A.
- Excavation of the impacted area in the pasture field and access road was completed to total depth ranging from 2 to 2.5 below ground surface depending on the sample area.
- An estimated 1,380 cubic yards of impacted soil was removed from the location and transported to R360 Red Bluff waste management facility located in Orla, Texas. Disposal was conducted by Kelley Oilfield Services and took place continuously throughout the excavation period.
- Upon receipt of confirmatory soil samples to verify the excavated area was below NMOCD
 closure criteria concentrations, Kelley Oilfield Services backfilled and compacted the well pad
 excavation area with approximately 1,250 cubic yards of clean caliche. The pasture area was
 backfilled with 80 yards of clean topsoil. Backfilling of both areas took place on July 30, 2019.
- The backfilled pasture was subsequently reseeded with BLM #2 seed mix by Kelley Oilfield Services on July 30, 2019.

4.0 Soil Sampling and Analytical Results

Confirmation sampling took place on June 10, 2019 following NMOCD notification, attached as Appendix B. A confirmation sample plan was implemented where 5 point composite samples were collected such that they represented areas less than 200 square feet, in accordance with Subparagraph (c) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC. Confirmation sample locations are depicted on Figures 6A, 6B and 6C. A total of 115 confirmation samples were collected, including 103 excavation footprint samples and 12 sidewall samples. Samples which exceeded NMOCD closure criteria from the first sampling event were resampled on July 12, 2019 following notification (Appendix B). Sample SP92 was resampled on November 07, 2019.



All confirmation samples were submitted to Envirotech Inc., a National Environmental Laboratory Accreditation Program (NELAP) laboratory, in accordance with NMOCD soil sampling procedures. The samples were analyzed for chlorides by EPA Method 300.0/9056A, volatile organics (BTEX) by EPA Method 8021B, and DRO, GRO and MRO by EPA Method 8015D. A summary of the laboratory results are attached as Table A with the raw analytical reports included as Appendix C.

5.0Summary

A release of 10 bbls of production fluids occurred on May 12, 2019 at the Ross Draw Unit #057 well pad. The cause of the release was due to a stuffing box failure-leak at the wellhead releasing production fluid onto the well pad surface which migrated into the adjacent pasture area and access road. BLM and NMOCD were both notified on May 15, 2019. The well pad and pasture are both located on federal property. Soil remediation activities involved excavating the impacted areas on the well pad surface to a total depth of 1 to 2 feet below ground surface depending on the impacted area. The impacted areas in the pasture and access road were excavated to a depth of 2 to 2.5 feet below ground surface. An estimated 1,380 cubic yards of impacted soil was transported for disposal to R360 Red Bluff waste management facility located in Orla, Texas

A total of 115 confirmation samples were collected from within the excavation to verify cleanup at the location. Analytical results for the 115 samples were reported below the concentration limits outlined in Table 1 of Subsection E of NMAC 19.15.29.12. Following analytical confirmation, the excavation on the well pad was backfilled and compacted with roughly 1,250 cubic yards of clean caliche. The pasture was backfilled with approximately 80 cubic yards of clean topsoil and reseeded with BLM #2 seed mix. No further remedial action is recommended.

6.0 Scope and Limitations

The scope of HRL's services consists of conducting site delineation, verification of release stabilization, regulatory liaison, guiding remediation activity, collecting confirmation soil samples, and preparation of this closure report. All work has been performed in accordance with 19.15.29 NMAC.



If there are any questions regarding this report, please contact Kevin Smith at 575-616-7398 Ext. 435.

Prepared by:

HRL Compliance Solutions, Inc.

Kevin Smith

Environmental Scientist - Permian

Kein Durch

Attachments:

Figure 1: Site Location Map

Figure 2: Depth to Groundwater Map Figure 3: Site Topographic Assessment

Figure 4: Karst Assessment Map

Figure 5: Spill Area Map

Figure 6A: Confirmation Sample Location Map – Footprint Figure 6B: Confirmation Sample Location Map - Footprint Figure 6C: Confirmation Sample Location Map – Sidewalls

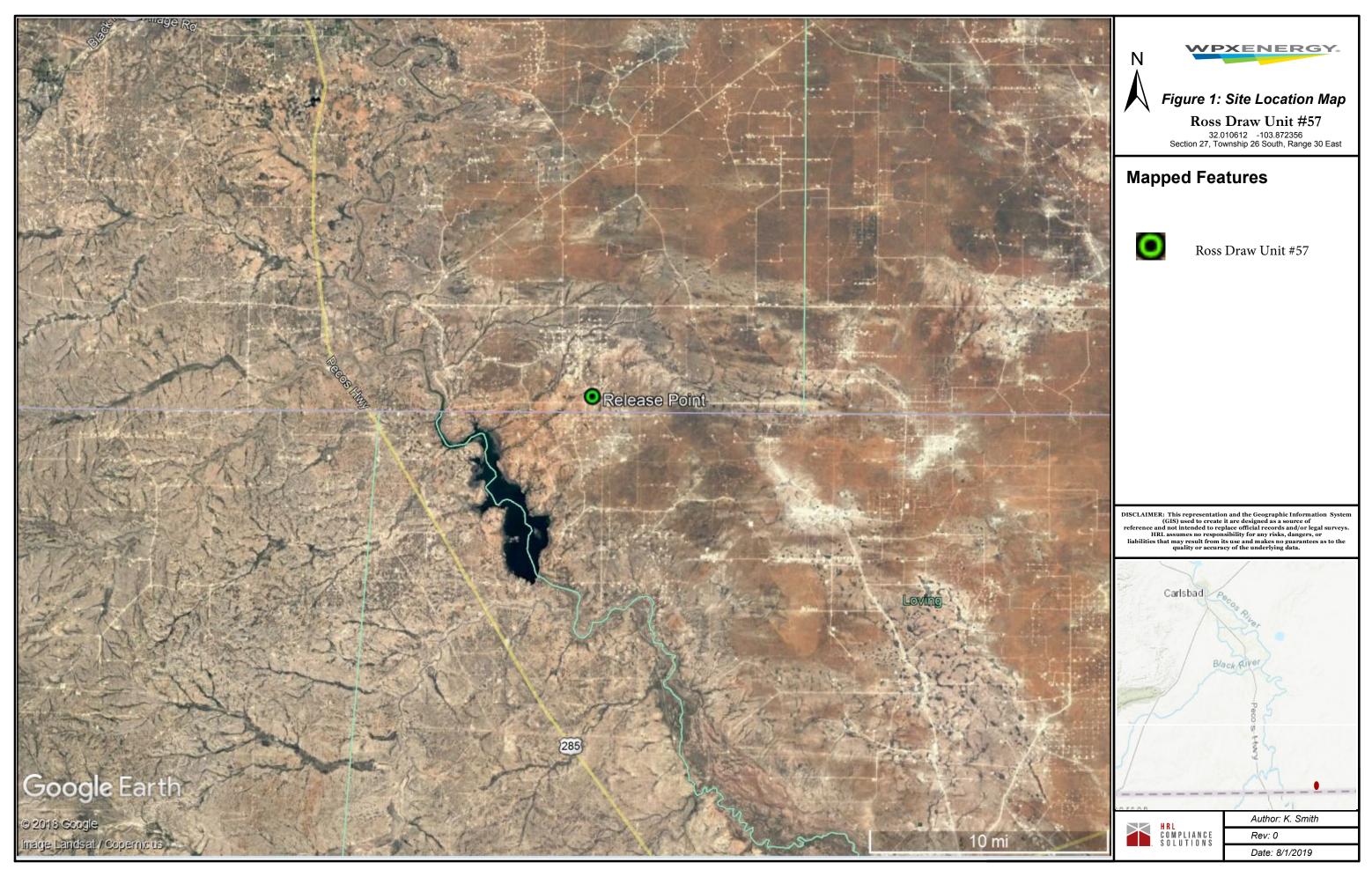
Table A: Analytical Results Summary Appendix A: C-141 Release Notification

Appendix B: Confirmation Sampling Notification

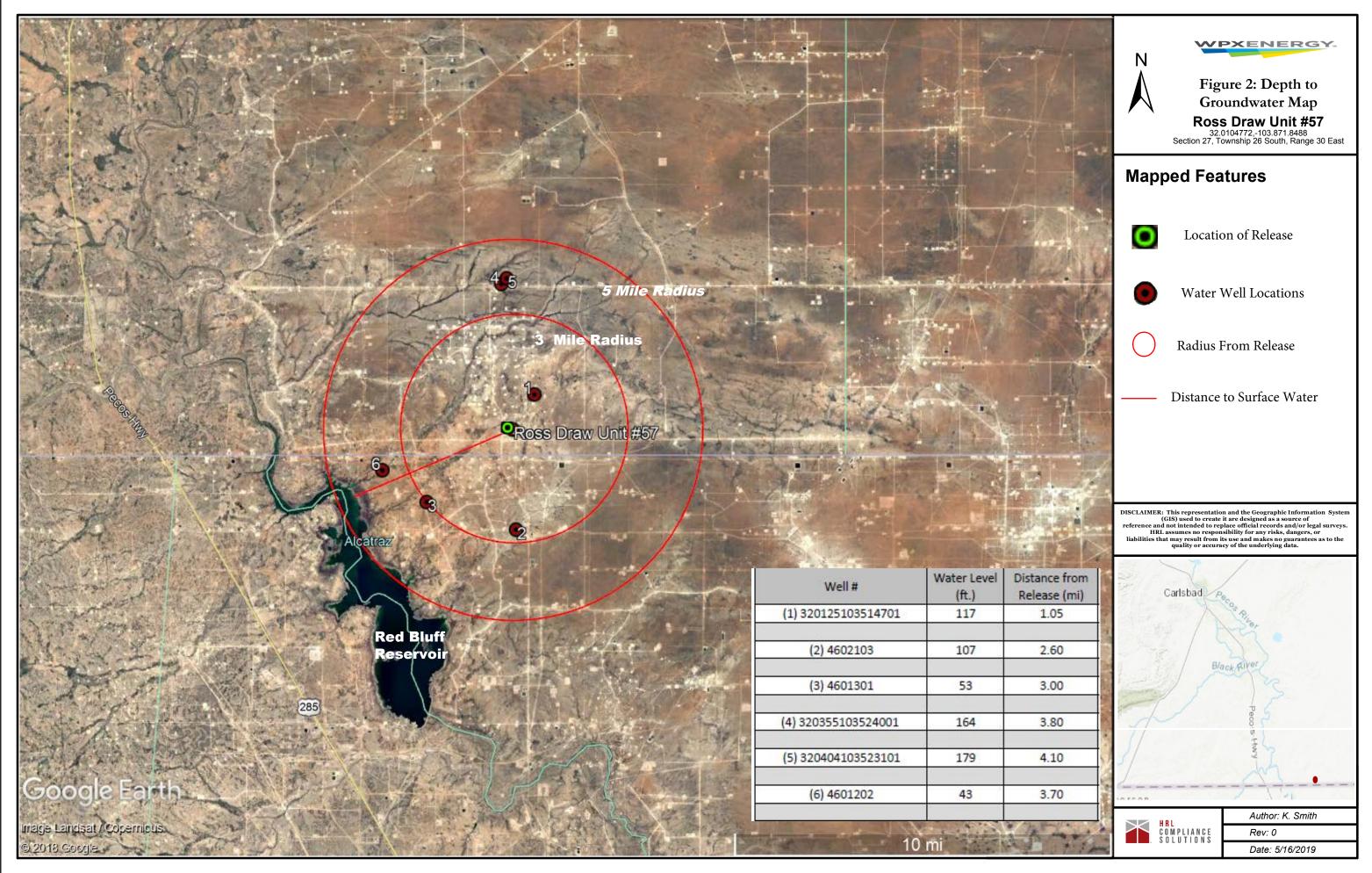
Appendix C: Laboratory Analytical Reports

Appendix D: Site Photographs

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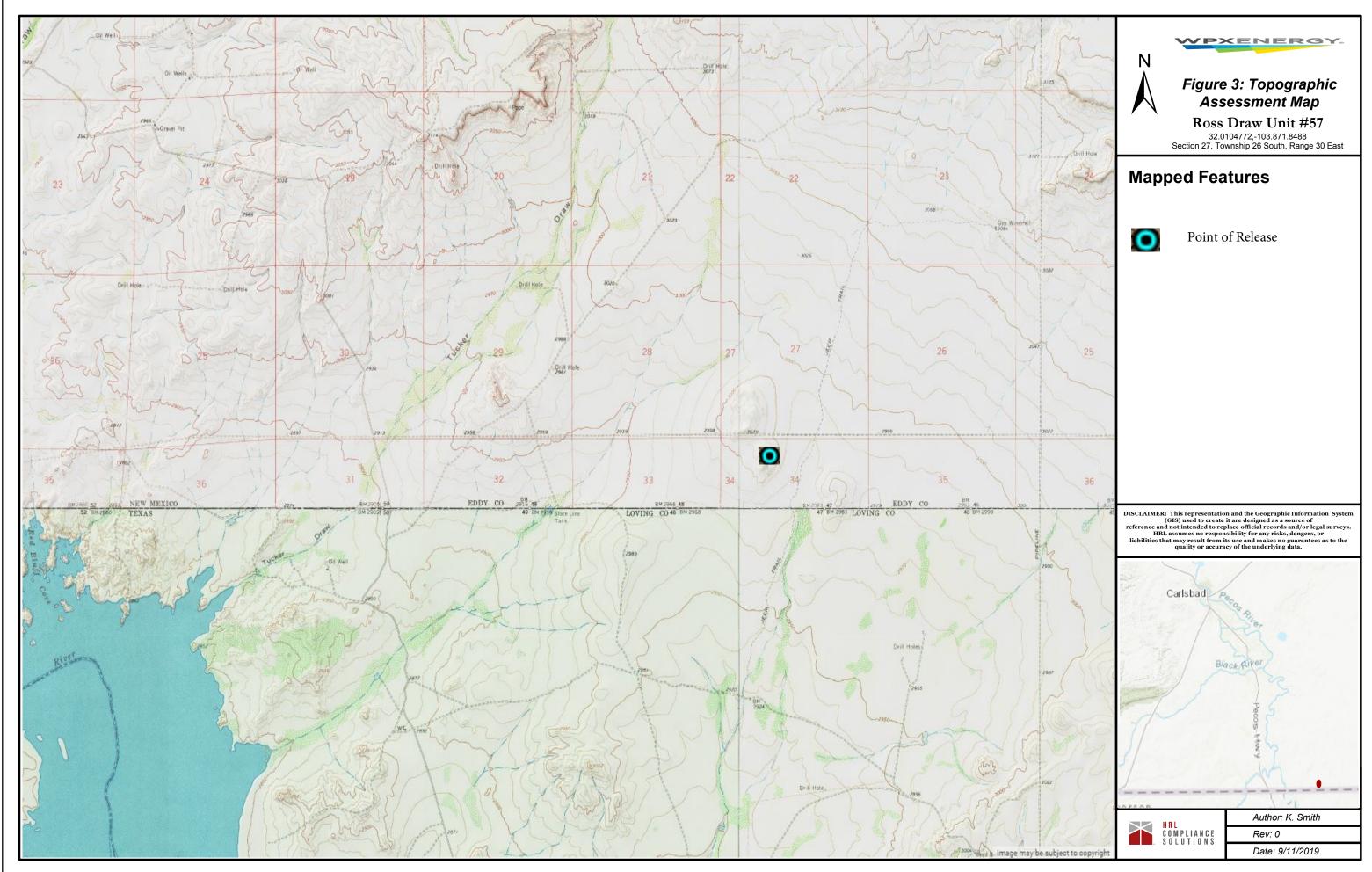


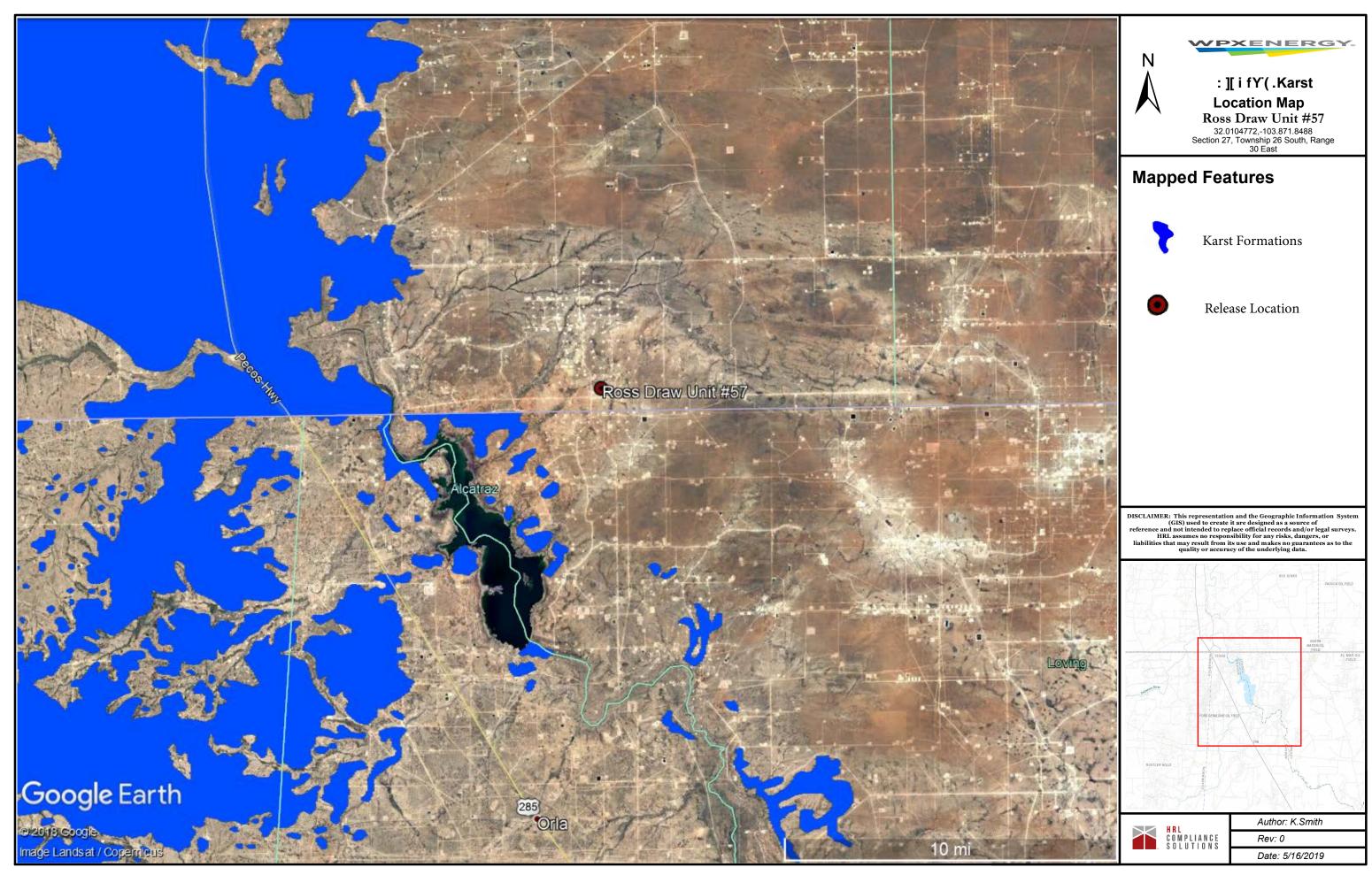
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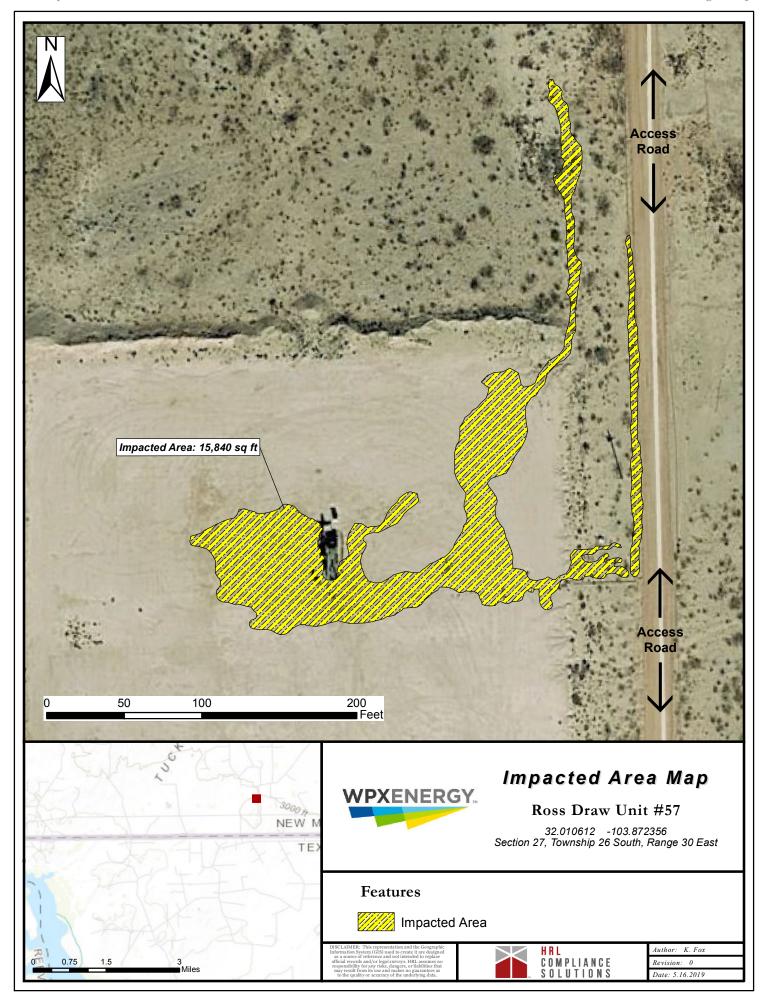


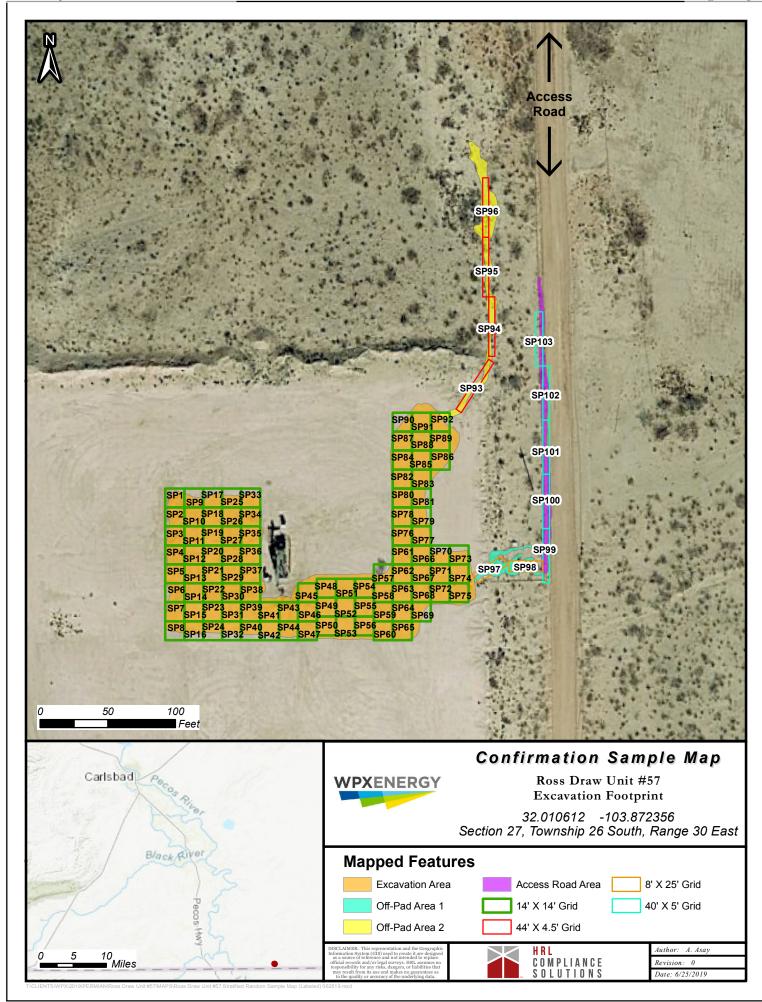
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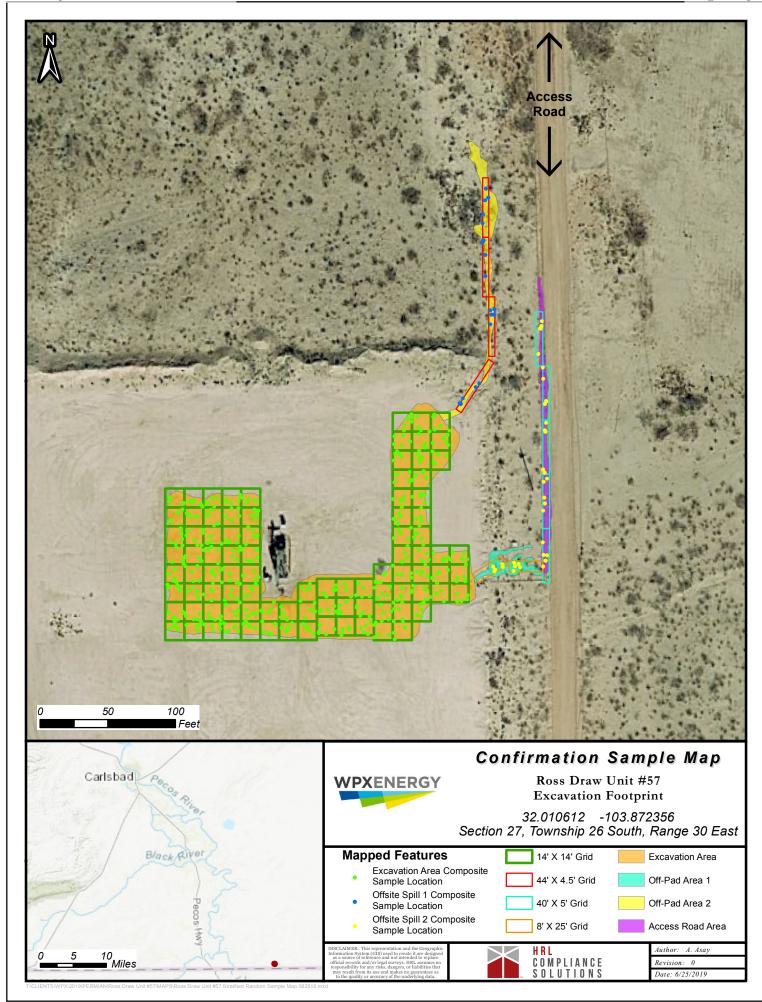
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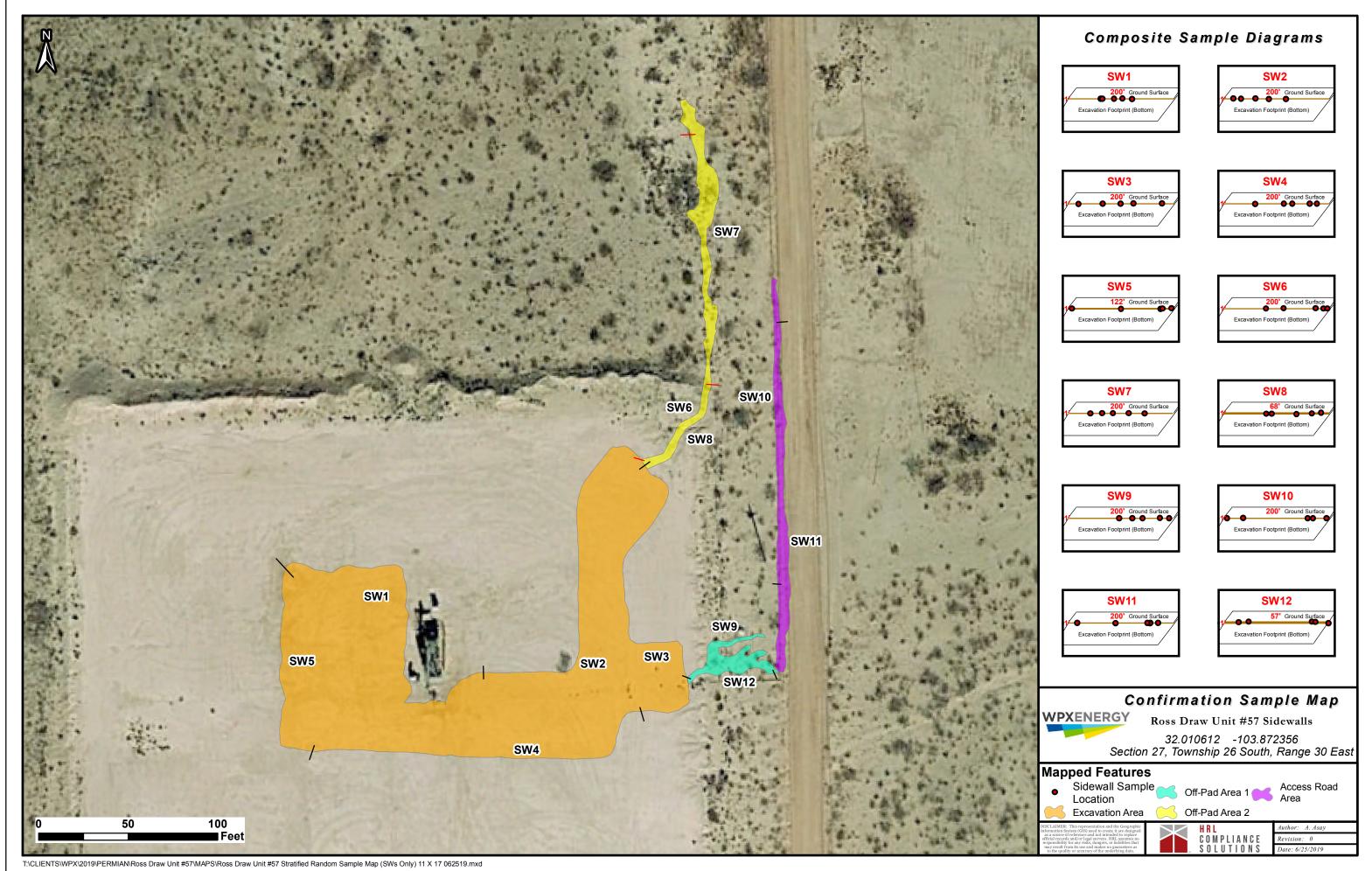




Table A: Laboratory Results Summary

NM OCD Table 1 Thresholds (GW 600 10 50 100	Ross Draw Unit #57 WPX Energy Permian, LLC				An	alytical R	esults - Er	virotech I	nc.	
Sample Depth (ft) Sampling Date Chloride Benzene BTEX GRO DRO MRO Total TPH			-							rted in mg/kg
ID		Table 1 Thres	,	600	10	50		10	00	
SP2 1 6/10/2019 791 ND	•	Depth (ft)		Chloride	Benzene	BTEX	GRO	DRO	MRO	Total TPH
\$\begin{array}{c c c c c c c c c c c c c c c c c c c	SP1			757	ND	ND	ND	ND	ND	ND
SP3 1 6/10/2019 629 ND		2	7/12/2019	563						
SP3 1 6/10/2019 629 ND	SP2	1	6/10/2019	791	ND	ND	ND	ND	ND	ND
SP4 1 6/10/2019 1130 ND		2	7/12/2019	201						
SP4 1 6/10/2019 1130 ND	SP3	1	6/10/2019	629	ND	ND	ND	ND	ND	ND
SP5 1 6/10/2019 1930 ND	3 . 5				.,,					1.15
SP5 1 6/10/2019 1930 ND	SDA	1	6/10/2019	1130	ND	ND	ND	ND	ND	ND
SP5 1 6/10/2019 1930 ND	314				IND	IND	IND	IND	ND	IND
SP6 1 6/10/2019 1200 ND	CDE				A ID	A ID	115	110	A I D	\ I_
SP6 1 6/10/2019 1200 ND	SP5				ND	ND	ND	ND	ND	ND
SP7 1 6/10/2019 306 ND										
SP7 1 6/10/2019 306 ND	SP6				ND	ND	ND	ND	ND	ND
SP8 1 6/10/2019 239 ND		2	//12/2019	123						
SP9 1 6/10/2019 10500 ND	SP7	1	6/10/2019	306	ND	ND	ND	ND	ND	ND
2 7/12/2019 151 Image: color of the	SP8	1	6/10/2019	239	ND	ND	ND	ND	ND	ND
2 7/12/2019 151 Image: color of the	SP9	1	6/10/2019	10500	ND	ND	ND	ND	ND	ND
SP11 1 6/10/2019 806 ND		2	7/12/2019	151						
SP11 1 6/10/2019 806 ND	SP10	1	6/10/2019	5490	ND	ND	ND	ND	ND	ND
2 7/12/2019 260 ND		2		343						
2 7/12/2019 260 ND	SP11	1	6/10/2019	806	ND	ND	ND	ND	ND	ND
2 7/12/2019 151 Image: color of the	0. 11		· ·							1
2 7/12/2019 151 Image: color of the	SD12	1	6/10/2019	3100	ND	ND	ND	ND	ND	ND
SP13 1 6/10/2019 305 ND	31 12				IND	ND	ND	ND	IND	IND
SP15 1 6/10/2019 192 ND	SP13	1	6/10/2019		ND	ND	ND	ND	ND	ND
SP16 1 6/10/2019 353 ND	SP14	1	6/10/2019	456	ND	ND	ND	ND	ND	ND
SP17 1 6/10/2019 197 ND	SP15	1	6/10/2019	192	ND	ND	ND	ND	ND	ND
SP18 1 6/10/2019 357 ND	SP16	1	6/10/2019	353	ND	ND	ND	ND	ND	ND
SP19 1 6/10/2019 472 ND ND ND ND ND ND SP20 1 6/10/2019 1490 ND ND ND ND ND ND ND	SP17	1	6/10/2019	197	ND	ND	ND	ND	ND	ND
SP20 1 6/10/2019 1490 ND ND ND ND ND ND ND	SP18	1	6/10/2019	357	ND	ND	ND	ND	ND	ND
	SP19	1	6/10/2019	472	ND	ND	ND	ND	ND	ND
2 7/12/2019 75.2	SP20	1	6/10/2019	1490	ND	ND	ND	ND	ND	ND
		2	7/12/2019	75.2						

Ross Draw Unit #57			Analytical Results - Envirotech Inc.						
Exca	vation Foo	otprint						Repo	orted in mg/kg
NM OCD T	able 1 Thre	esholds (GW	600	10	50		10	00	
Sample ID	Depth (ft)	Sampling Date	Chloride	Benzene	BTEX	GRO	DRO	MRO	Total TPH
SP21	1	6/10/2019	398	ND	ND	ND	ND	ND	ND
SP22	1	6/10/2019	127	ND	ND	ND	ND	ND	ND
SP23	1	6/10/2019	320	ND	ND	ND	ND	ND	ND
SP24	1	6/10/2019	326	ND	ND	ND	ND	ND	ND
SP25	1	6/10/2019	306	ND	ND	ND	ND	ND	ND
SP26	1	6/10/2019	20.6	ND	ND	ND	ND	ND	ND
SP27	1	6/10/2019	330	ND	ND	ND	ND	ND	ND
SP28	1	6/10/2019	293	ND	ND	ND	ND	ND	ND
SP29	1	6/10/2019	426	ND	ND	ND	ND	ND	ND
SP30	1	6/10/2019	208	ND	ND	ND	ND	ND	ND
SP31	1	6/10/2019	1370	ND	ND	ND	ND	ND	ND
	2	7/12/2019	200						
SP32	1	6/10/2019	246	ND	ND	ND	ND	ND	ND
SP33	1	6/10/2019	347	ND	ND	ND	ND	ND	ND
SP34	1	6/10/2019	1100	ND	ND	ND	ND	ND	ND
		7/12/2019	40.2						
SP35	1	6/10/2019	1030	ND	ND	ND	ND	ND	ND
	2	7/12/2019	131						
SP36	1	6/10/2019	381	ND	ND	ND	ND	ND	ND
SP37	1	6/10/2019	454	ND	ND	ND	ND	ND	ND
SP38	1	6/10/2019	824	ND	ND	ND	ND	ND	ND
	2	7/12/2019	104						
SP39	1	6/10/2019	204	ND	ND	ND	ND	ND	ND
SP40	1	6/10/2019	449	ND	ND	ND	ND	ND	ND
SP41	1	6/10/2019	1210	ND	ND	ND	ND	ND	ND
	2	7/12/2019	111						

Ross Draw Unit #57		Analytical Results - Envirotech Inc.								
Exca	vation Fo	otprint		Reported in mg/kg						
NM OCD T		esholds (GW	600	10	50		10	00	•	
Sample ID	Depth (ft)	Sampling Date	Chloride	Benzene	BTEX	GRO	DRO	MRO	Total TPH	
SP42	1	6/10/2019	1260	ND	ND	ND	ND	ND	ND	
	2	7/12/2019	107							
SP43	1	6/10/2019	175	ND	ND	ND	ND	ND	ND	
SP44	1	6/10/2019	451	ND	ND	ND	ND	ND	ND	
SP45	1	6/10/2019	ND	ND	ND	ND	ND	ND	ND	
SP46	1	6/10/2019	185	ND	ND	ND	ND	ND	ND	
SP47	1	6/10/2019	232	ND	ND	ND	ND	ND	ND	
SP48	1	6/10/2019	294	ND	ND	ND	ND	ND	ND	
SP49	1	6/10/2019	186	ND	ND	ND	ND	ND	ND	
SP50	1	6/10/2019	229	ND	ND	ND	ND	ND	ND	
SP51	1	6/10/2019	294	ND	ND	ND	ND	ND	ND	
SP52	1	6/10/2019	105	ND	ND	ND	ND	ND	ND	
SP53	1	6/10/2019	62.4	ND	ND	ND	ND	ND	ND	
SP54	1	6/10/2019	314	ND	ND	ND	ND	ND	ND	
SP55	1	6/10/2019	1070	ND	ND	ND	ND	ND	ND	
	2	7/12/2019	48.6							
SP56	1	6/10/2019	299	ND	ND	ND	ND	ND	ND	
SP57	1	6/10/2019	941	ND	ND	ND	ND	ND	ND	
	2	7/12/2019	177							
SP58	1	6/10/2019	251	ND	ND	ND	ND	ND	ND	
SP59	1	6/10/2019	243	ND	ND	ND	ND	ND	ND	
SP60	1	6/10/2019	1590	ND	ND	ND	ND	ND	ND	
	2	7/12/2019	40.6							
SP61	1	6/10/2019	1310	ND	ND	ND	ND	ND	ND	
	2	7/12/2019	34.8							
SP62	1	6/10/2019	512	ND	ND	ND	ND	ND	ND	
SP63	1	6/10/2019	396	ND	ND	ND	ND	ND	ND	

Ross Draw Unit #57		Analytical Results - Envirotech Inc.								
Excavation Footprint				Reported in mg/k						
NM OCD Table 1 Thresholds			600	10	50		10	00		
Sample ID	Depth (ft)	Sampling Date	Chloride	Benzene	BTEX	GRO	DRO	MRO	Total TPH	
SP64	1	6/10/2019	859	ND	ND	ND	ND	ND	ND	
	2	7/12/2019	156							
SP65	1	6/10/2019	310	ND	ND	ND	ND	ND	ND	
SP66	1	6/10/2019	989	ND	ND	ND	ND	ND	ND	
	2	7/12/2019	79							
SP67	1	6/10/2019	243	ND	ND	ND	ND	ND	ND	
SP68	1	6/10/2019	323	ND	ND	ND	ND	ND	ND	
SP69	1	6/10/2019	920	ND	ND	ND	ND	ND	ND	
	2	7/12/2019	118							
SP70	1	6/10/2019	853	ND	ND	ND	ND	ND	ND	
	2	7/12/2019	99.5							
SP71	1	6/10/2019	336	ND	ND	ND	ND	ND	ND	
SP72	2	6/10/2019	568	ND	ND	ND	ND	ND	ND	
SP73	1	6/10/2019	515	ND	ND	ND	ND	ND	ND	
SP74	1	6/10/2019	196	ND	ND	ND	ND	ND	ND	
SP75	1	6/10/2019	250	ND	ND	ND	ND	ND	ND	
SP76	1	6/10/2019	3430	ND	ND	ND	ND	ND	ND	
	2	7/12/2019	192							
SP77	1	6/10/2019	1480	ND	ND	ND	ND	ND	ND	
	2	7/12/2019	192							
SP78	1	6/10/2019	6150	ND	ND	ND	ND	ND	ND	
	2	7/12/2019	ND							
SP79	1	6/10/2019	7720	ND	ND	ND	ND	ND	ND	
	2	7/12/2019	99.1							
SP80	1	6/10/2019	226	ND	ND	ND	ND	ND	ND	
SP81	1	6/10/2019	2690	ND	ND	ND	ND	ND	ND	
	2	7/12/2019	26.6							
SP82	1	6/10/2019	287	ND	ND	ND	ND	ND	ND	
SP83	1	6/10/2019	70.3	ND	ND	ND	ND	ND	ND	
SP84	1	6/10/2019	297	ND	ND	ND	ND	ND	ND	
SP85	1	6/10/2019	307	ND	ND	ND	ND	ND	ND	

Ross	s Draw Un	nit #57	Analytical Results - Envirotech Inc.							
Excavation Footprint								Reported in mg/kg		
NM OCD T	able 1 Thre	esholds (GW	600 10 50 1			10	00			
Sample ID	Depth (ft)	Sampling Date	Chloride	Benzene	BTEX	GRO	DRO	MRO	Total TPH	
SP86	1	6/10/2019	462	ND	ND	ND	ND	ND	ND	
SP87	1 2	6/10/2019 7/12/2019	628 69.7	ND	ND	ND	ND	ND	ND	
SP88	1	6/10/2019	381	ND	ND	ND	ND	ND	ND	
SP89	1	6/10/2019	206	ND	ND	ND	ND	ND	ND	
SP90	1	6/10/2019	597	ND	ND	ND	ND	ND	ND	
SP91	1 2	6/10/2019 7/12/2019	2070 78.7	ND	ND	ND	ND	ND	ND	
SP92	1 2.5	6/10/2019 11/7/2019	691 254	ND	ND	ND	ND	ND	ND	
SP93	2 2.5	6/10/2019 7/12/2019	4000 149	ND	ND	ND ND	108 ND	ND ND	108	
SP94	2	6/10/2019	218	ND	ND	ND	ND	ND	ND	
SP95	2 2.5	6/10/2019 7/12/2019	655 133	ND	ND	ND	3820 ND	674 ND	4494 ND	
SP96	2	6/10/2019	604	ND	ND	ND	ND	ND	ND	
SP97	2	6/10/2019	288	ND	ND	ND	ND	ND	ND	
SP98	2	6/10/2019	281	ND	ND	ND	ND	ND	ND	
SP99	2	6/10/2019	295	ND	ND	ND	ND	ND	ND	
SP100	2	6/10/2019	24.6	ND	ND	ND	ND	ND	ND	
SP101	2	6/10/2019	358	ND	ND	ND	ND	ND	ND	
SP102	2	6/10/2019	1800	ND	ND	ND	ND	ND	ND	
	2.5	7/12/2019	146							
SP103	2	6/10/2019	46.3	ND	ND	ND	ND	ND	ND	

Ross Draw Unit #57			Analytical Results - Envirotech Inc.							
Excavation Sidewalls				Reported in I						
NM OCD Table 1 Thresholds (GW			600	600 10 50 100						
Sample ID	Depth (ft)	Sampling Date	Chloride	Benzene	BTEX	GRO	DRO	MRO	Total TPH	
SW1	Composite	6/10/2019	3210	ND	ND	ND	ND	ND	ND	
	Composite	7/12/2019	23.4							
SW2	Composite	6/10/2019	1720	ND	ND	ND	ND	ND	ND	
	Composite	7/12/2019	208							
SW3	Composite	6/10/2019	873	ND	ND	ND	119	ND	119	
	Composite	7/12/2019	364			ND	ND	ND	ND	
SW4	Composite	6/10/2019	1540	ND	ND	ND	ND	ND	ND	
	Composite	7/12/2019	213							
SW5	Composite	6/10/2019	925	ND	ND	ND	ND	ND	ND	
	Composite	7/12/2019	126							
SW6	Composite	6/10/2019	447	ND	ND	ND	ND	ND	ND	
SW7	Composite	6/10/2019	826	ND	ND	ND	ND	ND	ND	
	Composite	7/12/2019	118							
SW8	Composite	6/10/2019	397	ND	ND	ND	ND	ND	ND	
SW9	Composite	6/10/2019	3880	ND	ND	ND	196	54.8	250.8	
	Composite	7/12/2019	275			ND	ND	ND	ND	
SW10	Composite	6/10/2019	313	ND	ND	ND	ND	ND	ND	
SW11	Composite	6/10/2019	4760	ND	ND	ND	248	74.7	342.7	
	Composite	7/12/2019	219			ND	ND	ND	ND	
SW12	Composite	6/10/2019	1470	ND	ND	ND	ND	ND	ND	
	Composite	7/12/2019	95.2							



Appendix A: C-141 Release Notification

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	NAB1914935384
District RP	2RP-5450
Facility ID	
Application ID	pAB1914935143

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC	OGRID: 246289		
Contact Name: Deborah Watson	Contact Telephone: 575-885-7561		
Contact email: deborah.watson@wpxenergy.com	Incident # (assigned by OCD) NAB1914935384		
Contact mailing address: 5315 Buena Vista Drive, Carlsbad, NM 88	3220		

Location of Release Source

Latitude 32.01059

Longitude -103.87236

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Ross Draw Unit #057			Site Type: Well Pad					
Date Release Discovered: May 12, 2019			API# (if applicable) 30-015-41978					
Unit Letter	Section	Township	Range		County			
K	27	26S	30E	Eddy				
Surface Owner: State Federal Tribal Private (Name:)								

Nature and Volume of Release

Materia	l(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)
Crude Oil	Volume Released (bbls) 2	Volume Recovered (bbls) 1.5
□ Produced Water	Volume Released (bbls) 8	Volume Recovered (bbls) 6.5
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	⊠ Yes □ No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		
	at wellhead resulted in the release of 10 bbl of producti	ion fluids, a truck was called and 8 bbl of fluid were
recovered.		

Incident ID	NAB1914935384
District RP	2RP-5450
Facility ID	
Application ID	nAB1914935143

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
☐ Yes ⊠ No	
	btice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? ent on May 15, 2015 to BLM and OCD.
	Initial Response
The responsible p	party must undertake the following actions immediately 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.
	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.
	ecoverable materials have been removed and managed appropriately.
	d above have <u>not</u> been undertaken, explain why:
has begun, please attach	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are public health or the environr failed to adequately investig	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have atteand remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name: Deborah V	Vatson Title: Environmental Specialist
	nah Wath
Signature:	Date: 05/24/2019
email: deborah.watson@v	wpxenergy.com Telephone: 575-885-7561
OCD Only	
Received by:	Date: Date:



Appendix B: Confirmation Sampling Notification

From: Watson, Debbie

To: Venegas, Victoria, EMNRD; Bratcher, Mike, EMNRD; Hamlet, Robert, EMNRD; Amos, James

Cc: Kevin Smith

Subject: RDU 057 (30-015-419782/2RP-5450) Confirmation Sampling Notification-Resample

Date: Wednesday, July 10, 2019 11:07:00 AM

Good Morning,

WPX has scheduled confirmation resampling for Friday, July 12 around 11:15 AM at the RDU #057. A few areas are being further excavated and HRL Compliance will be collecting samples from within these areas on Friday.

Please contact me with any questions.

Thank you,

Debbie

From: Watson, Debbie

Sent: Thursday, June 6, 2019 1:49 PM

To: Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Amos, James <jamos@blm.gov>

Subject: RDU 057 (30-015-419782/2RP-5450) Confirmation Sampling Notification

Good Afternoon,

WPX has scheduled confirmation sampling for Monday, June 10, 2019 at the RDU #057. HRL Compliance will be on site to collect the samples. Collection of samples is scheduled for around 1:30 PM.

Please contact me with any questions.

Thank you,

Debbie Watson

Deborah Watson Environmental Specialist 5315 Buena Vista Drive | Carlsbad, NM 88220 office 575.885.7561 | cell 505.386.9693 deborah.watson@wpxenergy.com



If you have received this message in error, please reply to advise the sender of the error and then immediately delete this message. Thank you.

From: <u>Watson, Debbie</u>

To: <u>Kevin Smith</u>; <u>Lori O"Brien</u>

Subject: FW: RDU 057 (30-015-419782/2RP-5450) Confirmation Sampling Notification

Date: Monday, June 10, 2019 5:41:21 AM

From: Watson, Debbie

Sent: Thursday, June 6, 2019 1:49 PM

To: Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Amos, James <jamos@blm.gov>

Subject: RDU 057 (30-015-419782/2RP-5450) Confirmation Sampling Notification

Good Afternoon.

WPX has scheduled confirmation sampling for Monday, June 10, 2019 at the RDU #057. HRL Compliance will be on site to collect the samples. Collection of samples is scheduled for around 1:30 PM.

Please contact me with any questions.

Thank you,

Debbie Watson

Deborah Watson Environmental Specialist 5315 Buena Vista Drive | Carlsbad, NM 88220 office 575.885.7561 | cell 505.386.9693 deborah.watson@wpxenergy.com



If you have received this message in error, please reply to advise the sender of the error and then immediately delete this message. Thank you.

From: Venegas, Victoria, EMNRD < Victoria.Venegas@state.nm.us>

Sent: Wednesday, May 29, 2019 11:38 AM

To: Watson, Debbie < <u>Deborah.Watson@wpxenergy.com</u>>; Bratcher, Mike, EMNRD < <u>mike.bratcher@state.nm.us</u>>; Hamlet, Robert, EMNRD < <u>Robert.Hamlet@state.nm.us</u>>

Cc: McKinney, Deborah <<u>dmckinne@blm.gov</u>>; <u>jamos@blm.gov</u>

Subject: [EXTERNAL] RE: C-141 RDU 057 (30-015-41978)

CAUTION: This email was sent from an EXTERNAL source. Use caution when clicking links or opening attachments.

From: Kevin Smith

To: "Robert, Hamlet@state.nm.us"; "Victoria. Venegas@state.nm.us"; "mike.bratcher@state.nm.us"; Amos, James

Cc: <u>"deborah.watson@wpxenergy.com"</u>

Subject: Ross Draw Unit #57 (2RP-5450) - Confirmation Sampling Notification - SP 92

Date: Tuesday, November 05, 2019 8:48:00 AM

image001.png image002.png image003.png

Good Morning,

Attachments:

This email serves as confirmation sampling notification for the Ross Draw Unit #57 (2RP-5450) which occurred on June 21, 2019. HRL will be on location November 7 at 10 AM MST to resample SP 92.

Please contact me if you any questions.

Thanks,

Kevin Smith | Environmental Scientist

HRL Compliance Solutions, Inc.
P.O. Box 1708 | Artesia, NM 88211-1708
main 575.616.7398 | mobile 936.689.0078
Web | vCard | Map | f | In



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Appendix C: Laboratory Analytical Results

Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 6/12/2019 Job Number: 04108-0369 Work Order: P906042

Project Name/Location: Ross Draw Unit #57

Report Reviewed By:	Walter Hinkman	Date:	6/18/19	
	Walter Hinchman, Laboratory Director	_		



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.

Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.

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Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

5796 Highway 64, Farmington, NM 87401

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

WPX (Carlsbad) Project Name: Ross Draw Unit #57

5315 Buena Vista DrProject Number:04108-0369Reported:Carlsbad NM, 88220Project Manager:Kris Rowe06/18/19 10:31

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1	P906042-01A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP2	P906042-02A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP3	P906042-03A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP4	P906042-04A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP5	P906042-05A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP6	P906042-06A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP7	P906042-07A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP8	P906042-08A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP9	P906042-09A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP10	P906042-10A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP11	P906042-11A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP12	P906042-12A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP13	P906042-13A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP14	P906042-14A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP15	P906042-15A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP16	P906042-16A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP17	P906042-17A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP18	P906042-18A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP19	P906042-19A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP20	P906042-20A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe

Reported: 06/18/19 10:31

SP1 P906042-01 (Solid)

F906042-01 (S0IId)								
		Reporting						
Analyte	Result	Limit	Units Dilutio	on Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130	1924017	06/12/19	06/12/19	EPA 8260B	
Surrogate: Toluene-d8		98.3 %	70-130	1924017	06/12/19	06/12/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.5 %	70-130	1924017	06/12/19	06/12/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/0	ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924016	06/12/19	06/12/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924016	06/12/19	06/12/19	EPA 8015D	
Surrogate: n-Nonane		101 %	50-200	1924016	06/12/19	06/12/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130	1924017	06/12/19	06/12/19	EPA 8015D	
Surrogate: Toluene-d8		98.3 %	70-130	1924017	06/12/19	06/12/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.5 %	70-130	1924017	06/12/19	06/12/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	757	20.0	mg/kg 1	1924019	06/12/19	06/12/19	EPA 300.0/9056A	

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



Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 10:31

SP2

P906042-02 (Solid)

P900042-02 (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	1924017	06/12/19	06/12/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130	1924017	06/12/19	06/12/19	EPA 8260B	
Surrogate: Toluene-d8		99.5 %	70-130	1924017	06/12/19	06/12/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.7 %	70-130	1924017	06/12/19	06/12/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO	/ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924016	06/12/19	06/12/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924016	06/12/19	06/12/19	EPA 8015D	
Surrogate: n-Nonane		101 %	50-200	1924016	06/12/19	06/12/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO	•							
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130	1924017	06/12/19	06/12/19	EPA 8015D	
Surrogate: Toluene-d8		99.5 %	70-130	1924017	06/12/19	06/12/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.7 %	70-130	1924017	06/12/19	06/12/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	791	20.0	mg/kg 1	1924019	06/12/19	06/12/19	EPA 300.0/9056A	

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



Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe

Reported: 06/18/19 10:31

SP3

P906042-03 (Solid)

P906042-03 (Solid)								
		Reporting						
Analyte	Result	Limit	Units Dil	ution Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130	1924017	06/12/19	06/12/19	EPA 8260B	
Surrogate: Toluene-d8		98.6 %	70-130	1924017	06/12/19	06/12/19	EPA 8260B	
Surrogate: Bromofluorobenzene		96.4 %	70-130	1924017	06/12/19	06/12/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/O	ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924016	06/12/19	06/12/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924016	06/12/19	06/12/19	EPA 8015D	
Surrogate: n-Nonane		99.2 %	50-200	1924016	06/12/19	06/12/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130	1924017	06/12/19	06/12/19	EPA 8015D	
Surrogate: Toluene-d8		98.6 %	70-130	1924017	06/12/19	06/12/19	EPA 8015D	
Surrogate: Bromofluorobenzene		96.4 %	70-130	1924017	06/12/19	06/12/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	629	20.0	mg/kg 1	1924019	06/12/19	06/12/19	EPA 300.0/9056A	

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Chloride

Project Name:

1130

20.0

mg/kg

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe

Reported: 06/18/19 10:31

SP4

P906042-04 (Solid) Dilution Analyte Result Limit Units Batch Prepared Analyzed Method Notes **Volatile Organic Compounds by 8260** ND 0.0250 1924017 06/12/19 06/12/19 EPA 8260B Benzene mg/kg Toluene 0.0250 1924017 06/12/19 06/12/19 EPA 8260B ND mg/kg 1 Ethylbenzene ND 0.0250 mg/kg 1 1924017 06/12/19 06/12/19 EPA 8260B p,m-Xylene ND 0.0500 1924017 06/12/19 06/12/19 EPA 8260B mg/kg ND 0.0250 mg/kg 1924017 06/12/19 06/12/19 EPA 8260B o-Xylene Total Xylenes ND 0.0250 mg/kg 1 1924017 06/12/19 06/12/19 EPA 8260B Surrogate: 1,2-Dichloroethane-d4 98.6 % 70-130 1924017 06/12/19 06/12/19 EPA 8260B 1924017 06/12/19 06/12/19 EPA 8260B Surrogate: Toluene-d8 99.8 % 70-130 06/12/19 Surrogate: Bromofluorobenzene 70-130 1924017 06/12/19 EPA 8260B 98.3 % Nonhalogenated Organics by 8015 - DRO/ORO 1924016 06/12/19 06/12/19 EPA 8015D Diesel Range Organics (C10-C28) ND 25.0 mg/kg 1 1924016 06/12/19 06/12/19 EPA 8015D Oil Range Organics (C28-C40) ND 50.0 mg/kg 1 1924016 06/12/19 06/12/19 EPA 8015D Surrogate: n-Nonane 100 % 50-200 Nonhalogenated Organics by 8015 - GRO Gasoline Range Organics (C6-C10) ND 20.0 mg/kg 1924017 06/12/19 06/12/19 EPA 8015D 98.6 % 70-130 1924017 06/12/19 06/12/19 EPA 8015D Surrogate: 1,2-Dichloroethane-d4 06/12/19 1924017 06/12/19EPA 8015D Surrogate: Toluene-d8 99.8 % 70-130 06/12/19 Surrogate: Bromofluorobenzene 98.3 % 70-130 1924017 06/12/19 EPA 8015D Anions by 300.0/9056A

1924019

06/12/19

06/12/19

EPA

300.0/9056A

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5796 Highway 64, Farmington, NM 87401

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

Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: 04108-0369 Project Manager: Kris Rowe **Reported:** 06/18/19 10:31

SP5 P906042-05 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg 1		1924017	06/12/19	06/13/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1		1924017	06/12/19	06/13/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1		1924017	06/12/19	06/13/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1		1924017	06/12/19	06/13/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1		1924017	06/12/19	06/13/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1		1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-13	0	1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: Toluene-d8		98.2 %	70-13	0	1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: Bromofluorobenzene		96.2 %	70-13	0	1924017	06/12/19	06/13/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO	/ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1		1924016	06/12/19	06/12/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1		1924016	06/12/19	06/12/19	EPA 8015D	
Surrogate: n-Nonane		102 %	50-20	0	1924016	06/12/19	06/12/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO	ı								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		1924017	06/12/19	06/13/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-13	0	1924017	06/12/19	06/13/19	EPA 8015D	
Surrogate: Toluene-d8		98.2 %	70-13	0	1924017	06/12/19	06/13/19	EPA 8015D	
Surrogate: Bromofluorobenzene		96.2 %	70-13	0	1924017	06/12/19	06/13/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1930	20.0	mg/kg 1		1924019	06/12/19	06/12/19	EPA 300.0/9056A	

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5796 Highway 64, Farmington, NM 87401

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe

Reported: 06/18/19 10:31

SP6 P906042-06 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg 1		1924017	06/12/19	06/13/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1		1924017	06/12/19	06/13/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1		1924017	06/12/19	06/13/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1		1924017	06/12/19	06/13/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1		1924017	06/12/19	06/13/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1		1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		99.5 %	70-13	0	1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: Toluene-d8		98.8 %	70-13	0	1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: Bromofluorobenzene		95.8 %	70-13	0	1924017	06/12/19	06/13/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRG	O/ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1		1924016	06/12/19	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1		1924016	06/12/19	06/13/19	EPA 8015D	
Surrogate: n-Nonane		101 %	50-20	0	1924016	06/12/19	06/13/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GR	0								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		1924017	06/12/19	06/13/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		99.5 %	70-13	0	1924017	06/12/19	06/13/19	EPA 8015D	
Surrogate: Toluene-d8		98.8 %	70-13	0	1924017	06/12/19	06/13/19	EPA 8015D	
Surrogate: Bromofluorobenzene		95.8 %	70-13	0	1924017	06/12/19	06/13/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1200	20.0	mg/kg 1		1924019	06/12/19	06/12/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe

Reported: 06/18/19 10:31

SP7 P906042-07 (Solid)

		Reporting						
Analyte	Result	Limit	Units Dilution	n Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130	1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: Toluene-d8		99.1 %	70-130	1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.1 %	70-130	1924017	06/12/19	06/13/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/	ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924016	06/12/19	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924016	06/12/19	06/13/19	EPA 8015D	
Surrogate: n-Nonane		102 %	50-200	1924016	06/12/19	06/13/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130	1924017	06/12/19	06/13/19	EPA 8015D	_
Surrogate: Toluene-d8		99.1 %	70-130	1924017	06/12/19	06/13/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.1 %	70-130	1924017	06/12/19	06/13/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	306	20.0	mg/kg 1	1924019	06/12/19	06/12/19	EPA	

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300.0/9056A

Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 10:31

SP8

P906042-08	(Solid)
Penorting	

		Reporting	42-00 (Solid)					
Analyte	Result	Limit	Units Dilut	ion Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130	1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: Toluene-d8		98.5 %	70-130	1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: Bromofluorobenzene		98.7 %	70-130	1924017	06/12/19	06/13/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DR	O/ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924016	06/12/19	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924016	06/12/19	06/13/19	EPA 8015D	
Surrogate: n-Nonane		102 %	50-200	1924016	06/12/19	06/13/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GR	0							
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130	1924017	06/12/19	06/13/19	EPA 8015D	
Surrogate: Toluene-d8		98.5 %	70-130	1924017	06/12/19	06/13/19	EPA 8015D	
Surrogate: Bromofluorobenzene		98.7 %	70-130	1924017	06/12/19	06/13/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	2390	20.0	mg/kg 1	1924019	06/12/19	06/12/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: 04108-0369 Project Manager: Kris Rowe **Reported:** 06/18/19 10:31

SP9

P906042-09 (Solid)

		P9060	42-09 (Solid)					
		Reporting							
Analyte	Result	Limit	Units I	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg 1		1924017	06/12/19	06/13/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1		1924017	06/12/19	06/13/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1		1924017	06/12/19	06/13/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1		1924017	06/12/19	06/13/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1		1924017	06/12/19	06/13/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1		1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		99.3 %	70-130)	1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: Toluene-d8		100 %	70-130)	1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: Bromofluorobenzene		96.3 %	70-130)	1924017	06/12/19	06/13/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DR	O/ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1		1924016	06/12/19	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1		1924016	06/12/19	06/13/19	EPA 8015D	
Surrogate: n-Nonane		102 %	50-200)	1924016	06/12/19	06/13/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GR	0								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		1924017	06/12/19	06/13/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		99.3 %	70-130)	1924017	06/12/19	06/13/19	EPA 8015D	
Surrogate: Toluene-d8		100 %	70-130)	1924017	06/12/19	06/13/19	EPA 8015D	
Surrogate: Bromofluorobenzene		96.3 %	70-130)	1924017	06/12/19	06/13/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	10500	100	mg/kg 5		1924019	06/12/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe

Reported: 06/18/19 10:31

SP10 P906042-10 (Solid)

		Reporting	42-10 (Solid)					
Analyte	Result	Limit	Units Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: Toluene-d8		99.0 %	70-130	1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.3 %	70-130	1924017	06/12/19	06/13/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO	O/ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924016	06/12/19	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924016	06/12/19	06/13/19	EPA 8015D	
Surrogate: n-Nonane		101 %	50-200	1924016	06/12/19	06/13/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO	0							
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	1924017	06/12/19	06/13/19	EPA 8015D	
Surrogate: Toluene-d8		99.0 %	70-130	1924017	06/12/19	06/13/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.3 %	70-130	1924017	06/12/19	06/13/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	5490	40.0	mg/kg 2	1924019	06/12/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 10:31

SP11 P906042-11 (Solid)

		F 9000	42-11 (50110	1)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	1924017	06/12/19	06/13/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924017	06/12/19	06/13/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924017	06/12/19	06/13/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924017	06/12/19	06/13/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924017	06/12/19	06/13/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-13	30	1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: Toluene-d8		99.7 %	70-13	80	1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.3 %	70-13	30	1924017	06/12/19	06/13/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924016	06/12/19	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924016	06/12/19	06/13/19	EPA 8015D	
Surrogate: n-Nonane		101 %	50-20	00	1924016	06/12/19	06/13/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924017	06/12/19	06/13/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-13	30	1924017	06/12/19	06/13/19	EPA 8015D	
Surrogate: Toluene-d8		99.7 %	70-13	30	1924017	06/12/19	06/13/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.3 %	70-13	30	1924017	06/12/19	06/13/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	806	20.0	mg/kg	1	1924019	06/12/19	06/12/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: 04108-0369 Project Manager: Kris Rowe **Reported:** 06/18/19 10:31

SP12 P906042-12 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	1924017	06/12/19	06/13/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924017	06/12/19	06/13/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924017	06/12/19	06/13/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924017	06/12/19	06/13/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924017	06/12/19	06/13/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-	130	1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: Toluene-d8		100 %	70-	130	1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.0 %	70-	130	1924017	06/12/19	06/13/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924016	06/12/19	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924016	06/12/19	06/13/19	EPA 8015D	
Surrogate: n-Nonane		101 %	50	200	1924016	06/12/19	06/13/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924017	06/12/19	06/13/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-	130	1924017	06/12/19	06/13/19	EPA 8015D	
Surrogate: Toluene-d8		100 %	70	130	1924017	06/12/19	06/13/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.0 %	70-	130	1924017	06/12/19	06/13/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	3100	20.0	mg/kg	1	1924019	06/12/19	06/12/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220

Project Number: 04108-0369 Project Manager: Kris Rowe

Reported: 06/18/19 10:31

SP13

		P9060	42-13 (Solid)					
		Reporting	`	,					
Analyte	Result	Limit	Units 1	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg 1		1924017	06/12/19	06/13/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1		1924017	06/12/19	06/13/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1		1924017	06/12/19	06/13/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1		1924017	06/12/19	06/13/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1		1924017	06/12/19	06/13/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1		1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130)	1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: Toluene-d8		99.0 %	70-130)	1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: Bromofluorobenzene		95.1 %	70-130)	1924017	06/12/19	06/13/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1		1924016	06/12/19	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1		1924016	06/12/19	06/13/19	EPA 8015D	
Surrogate: n-Nonane		102 %	50-200)	1924016	06/12/19	06/13/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		1924017	06/12/19	06/13/19	EPA 8015D	_
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130)	1924017	06/12/19	06/13/19	EPA 8015D	_
Surrogate: Toluene-d8		99.0 %	70-130)	1924017	06/12/19	06/13/19	EPA 8015D	
Surrogate: Bromofluorobenzene		95.1 %	70-130)	1924017	06/12/19	06/13/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	305	20.0	mg/kg 1		1924019	06/12/19	06/12/19	EPA	

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envirotech-inc.com Labadmin@envirotech-inc.com

300.0/9056A



envirotech Analytical Laboratory

WPX (Carlsbad)

Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe

Reported: 06/18/19 10:31

SP14 P906042-14 (Solid)

		F 9000	42-14 (Solia)					
		Reporting						
Analyte	Result	Limit	Units Dile	ution Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: Toluene-d8		97.9 %	70-130	1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: Bromofluorobenzene		95.4 %	70-130	1924017	06/12/19	06/13/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/O	ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924016	06/12/19	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924016	06/12/19	06/13/19	EPA 8015D	
Surrogate: n-Nonane		100 %	50-200	1924016	06/12/19	06/13/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	1924017	06/12/19	06/13/19	EPA 8015D	
Surrogate: Toluene-d8		97.9 %	70-130	1924017	06/12/19	06/13/19	EPA 8015D	
Surrogate: Bromofluorobenzene		95.4 %	70-130	1924017	06/12/19	06/13/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	456	20.0	mg/kg 1	1924019	06/12/19	06/12/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number:
Project Manager:

04108-0369 Kris Rowe **Reported:** 06/18/19 10:31

SP15 P906042-15 (Solid)

		Reporting	42-13 (Solid)					
Analyte	Result	Limit	Units Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: Toluene-d8		99.1 %	70-130	1924017	06/12/19	06/13/19	EPA 8260B	
Surrogate: Bromofluorobenzene		95.3 %	70-130	1924017	06/12/19	06/13/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO	O/ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924016	06/12/19	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924016	06/12/19	06/13/19	EPA 8015D	
Surrogate: n-Nonane		102 %	50-200	1924016	06/12/19	06/13/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO)							
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924017	06/12/19	06/13/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	1924017	06/12/19	06/13/19	EPA 8015D	
Surrogate: Toluene-d8		99.1 %	70-130	1924017	06/12/19	06/13/19	EPA 8015D	
Surrogate: Bromofluorobenzene		95.3 %	70-130	1924017	06/12/19	06/13/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	192	20.0	mg/kg 1	1924019	06/12/19	06/12/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 10:31

SP16 P906042-16 (Solid)

			42-10 (Sullu)					
		Reporting						
Analyte	Result	Limit	Units Diluti	on Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		94.6 %	70-130	1924017	06/12/19	06/12/19	EPA 8260B	
Surrogate: Toluene-d8		105 %	70-130	1924017	06/12/19	06/12/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.2 %	70-130	1924017	06/12/19	06/12/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/O	RO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924016	06/12/19	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924016	06/12/19	06/13/19	EPA 8015D	
Surrogate: n-Nonane		100 %	50-200	1924016	06/12/19	06/13/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		94.6 %	70-130	1924017	06/12/19	06/12/19	EPA 8015D	
Surrogate: Toluene-d8		105 %	70-130	1924017	06/12/19	06/12/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.2 %	70-130	1924017	06/12/19	06/12/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	353	20.0	mg/kg 1	1924019	06/12/19	06/12/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 10:31

SP17 P906042-17 (Solid)

		F 9000	42-17 (Solia)					
		Reporting						
Analyte	Result	Limit	Units Dilution	n Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	1924017	06/12/19	06/12/19	EPA 8260B	
Surrogate: Toluene-d8		104 %	70-130	1924017	06/12/19	06/12/19	EPA 8260B	
Surrogate: Bromofluorobenzene		96.7 %	70-130	1924017	06/12/19	06/12/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/Ol	RO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924016	06/12/19	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924016	06/12/19	06/13/19	EPA 8015D	
Surrogate: n-Nonane		98.3 %	50-200	1924016	06/12/19	06/13/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	1924017	06/12/19	06/12/19	EPA 8015D	
Surrogate: Toluene-d8		104 %	70-130	1924017	06/12/19	06/12/19	EPA 8015D	
Surrogate: Bromofluorobenzene		96.7 %	70-130	1924017	06/12/19	06/12/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	197	20.0	mg/kg 1	1924019	06/12/19	06/12/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager:

04108-0369 Kris Rowe

Reported: 06/18/19 10:31

SP18

P906042-18 (Solid)

		P9060	42-18 (Solid)					
		Reporting						
Analyte	Result	Limit	Units Dil	ution Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130	1924017	06/12/19	06/12/19	EPA 8260B	
Surrogate: Toluene-d8		104 %	70-130	1924017	06/12/19	06/12/19	EPA 8260B	
Surrogate: Bromofluorobenzene		96.9 %	70-130	1924017	06/12/19	06/12/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO	O/ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924016	06/12/19	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924016	06/12/19	06/13/19	EPA 8015D	
Surrogate: n-Nonane		99.4 %	50-200	1924016	06/12/19	06/13/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO	0							
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130	1924017	06/12/19	06/12/19	EPA 8015D	
Surrogate: Toluene-d8		104 %	70-130	1924017	06/12/19	06/12/19	EPA 8015D	
Surrogate: Bromofluorobenzene		96.9 %	70-130	1924017	06/12/19	06/12/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	357	20.0	mg/kg 1	1924019	06/12/19	06/12/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 10:31

SP19 P906042-19 (Solid)

			42-19 (Solid)					
		Reporting						
Analyte	Result	Limit	Units Dilut	ion Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	1924017	06/12/19	06/12/19	EPA 8260B	
Surrogate: Toluene-d8		104 %	70-130	1924017	06/12/19	06/12/19	EPA 8260B	
Surrogate: Bromofluorobenzene		96.2 %	70-130	1924017	06/12/19	06/12/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/O	RO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924016	06/12/19	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924016	06/12/19	06/13/19	EPA 8015D	
Surrogate: n-Nonane		101 %	50-200	1924016	06/12/19	06/13/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924017	06/12/19	06/12/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	1924017	06/12/19	06/12/19	EPA 8015D	
Surrogate: Toluene-d8		104 %	70-130	1924017	06/12/19	06/12/19	EPA 8015D	
Surrogate: Bromofluorobenzene		96.2 %	70-130	1924017	06/12/19	06/12/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	472	20.0	mg/kg 1	1924019	06/12/19	06/12/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: 04108-0369 Project Manager: Kris Rowe

Reported: 06/18/19 10:31

SP20 P906042-20 (Solid)

			42-20 (Sund	.,					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg 1		1924017	06/12/19	06/12/19	EPA 8260B	
Toluene	ND				1924017	06/12/19	06/12/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1		1924017	06/12/19	06/12/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1		1924017	06/12/19	06/12/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1		1924017	06/12/19	06/12/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1		1924017	06/12/19	06/12/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-13	0	1924017	06/12/19	06/12/19	EPA 8260B	
Surrogate: Toluene-d8		105 %	70-13	0	1924017	06/12/19	06/12/19	EPA 8260B	
Surrogate: Bromofluorobenzene		95.5 %	70-13	0	1924017	06/12/19	06/12/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/6	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1		1924016	06/12/19	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1		1924016	06/12/19	06/13/19	EPA 8015D	
Surrogate: n-Nonane		98.2 %	50-20	0	1924016	06/12/19	06/13/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		1924017	06/12/19	06/12/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-13	0	1924017	06/12/19	06/12/19	EPA 8015D	
Surrogate: Toluene-d8		105 %	70-13	0	1924017	06/12/19	06/12/19	EPA 8015D	
Surrogate: Bromofluorobenzene		95.5 %	70-13	0	1924017	06/12/19	06/12/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1490	20.0	mg/kg 1		1924019	06/12/19	06/12/19	EPA 300.0/9056A	

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5796 Highway 64, Farmington, NM 87401

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



WPX (Carlsbad) Project Name: Ross Draw Unit #57

5315 Buena Vista Dr Project Number: 04108-0369 Reported: Carlsbad NM, 88220 Project Manager: Kris Rowe 06/18/19 10:31

Volatile Organic Compounds by 8260 - Quality Control

Envirotech Analytical Laboratory

Spike

Source

%REC

RPD

Reporting

		recporting		Spine	Bource		, 0.1		IG D	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1924017 - Purge and Trap EPA 50	030A									
Blank (1924017-BLK1)				Prepared &	Analyzed:	06/12/19 1				
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 1,2-Dichloroethane-d4	0.495		"	0.500		98.9	70-130			
Surrogate: Toluene-d8	0.499		"	0.500		99.8	70-130			
Surrogate: Bromofluorobenzene	0.487		"	0.500		97.3	70-130			
LCS (1924017-BS1)				Prepared &	Analyzed:	06/12/19 1				
Benzene	2.83	0.0250	mg/kg	2.50		113	70-130			
Toluene	2.92	0.0250	"	2.50		117	70-130			
Ethylbenzene	2.90	0.0250	"	2.50		116	70-130			
p,m-Xylene	5.75	0.0500	"	5.00		115	70-130			
o-Xylene	2.85	0.0250	"	2.50		114	70-130			
Total Xylenes	8.60	0.0250	"	7.50		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		"	0.500		99.2	70-130			
Surrogate: Toluene-d8	0.498		"	0.500		99.6	70-130			
Surrogate: Bromofluorobenzene	0.479		"	0.500		95.8	70-130			
Matrix Spike (1924017-MS1)	Sour	ce: P906042-	01	Prepared &	Analyzed:	06/12/19 1				
Benzene	2.70	0.0250	mg/kg	2.50	ND	108	48-131			
Toluene	2.79	0.0250	"	2.50	ND	112	48-130			
Ethylbenzene	2.77	0.0250	"	2.50	ND	111	45-135			
p,m-Xylene	5.50	0.0500	"	5.00	ND	110	43-135			
o-Xylene	2.72	0.0250	"	2.50	ND	109	43-135			
Total Xylenes	8.22	0.0250	"	7.50	ND	110	43-135			
Surrogate: 1,2-Dichloroethane-d4	0.507		"	0.500		101	70-130			
Surrogate: Toluene-d8	0.496		"	0.500		99.2	70-130			
Surrogate: Bromofluorobenzene	0.490		"	0.500		97.9	70-130			
Matrix Spike Dup (1924017-MSD1)	Sour	ce: P906042-	01	Prepared &	Analyzed:	06/12/19 1				
Benzene	2.63	0.0250	mg/kg	2.50	ND	105	48-131	2.55	23	
Toluene	2.72	0.0250	"	2.50	ND	109	48-130	2.54	24	
Ethylbenzene	2.73	0.0250	"	2.50	ND	109	45-135	1.27	27	
•										

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5.00

2.50

7.50

0.500

0.500

0.500

ND

ND

109

108

108

102

99.9

98.5

43-135

43-135

43-135

70-130

70-130

70-130

1.13

0.979

1.08

27

27

5.43

2.69

8.13

0.510

0.500

0.493

0.0500

0.0250

0.0250

5796 Highway 64, Farmington, NM 87401

p,m-Xylene

Total Xylenes

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Bromofluorobenzene

o-Xylene

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

WPX (Carlsbad) Project Name: Ross Draw Unit #57

5315 Buena Vista DrProject Number:04108-0369Reported:Carlsbad NM, 88220Project Manager:Kris Rowe06/18/19 10:31

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 1924016 - DRO Extraction EPA 3570										
Blank (1924016-BLK1)	(1924016-BLK1)						6/14/19 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	53.2		"	50.0		106	50-200			
LCS (1924016-BS1)				Prepared: (
Diesel Range Organics (C10-C28)	505	25.0	mg/kg	500		101	38-132			
Surrogate: n-Nonane	50.6		"	50.0		101	50-200			
Matrix Spike (1924016-MS1)	Sour	rce: P906042-	01	Prepared: (06/12/19 1 A	Analyzed: 0	6/12/19 2			
Diesel Range Organics (C10-C28)	500	25.0	mg/kg	500	ND	100	38-132			
Surrogate: n-Nonane	51.0		"	50.0		102	50-200			
Matrix Spike Dup (1924016-MSD1)	Sour	rce: P906042-	Prepared: (06/12/19 1 A	Analyzed: 0	6/12/19 2				
Diesel Range Organics (C10-C28)	508	25.0	mg/kg	500	ND	102	38-132	1.56	20	
Surrogate: n-Nonane	50.7		"	50.0		101	50-200			

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5796 Highway 64, Farmington, NM 87401

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Analyte

 ${\it Surrogate: Bromofluor obenzene}$

Project Name:

Reporting

Limit

Pacult

0.485

Ross Draw Unit #57

Spike

Laval

0.500

Source

Pocult

%PEC

96.9

70-130

%REC

Limite

DDD

5315 Buena Vista Dr Project Number: Carlsbad NM, 88220 Project Manager: 04108-0369 Kris Rowe

Reported: 06/18/19 10:31

RPD

Limit

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Unite

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch 1924017 - Purge and Trap EPA 5030A											
Blank (1924017-BLK1)				Prepared &	Analyzed:	06/12/19 1					
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg								
Surrogate: 1,2-Dichloroethane-d4	0.495		"	0.500		98.9	70-130				
Surrogate: Toluene-d8	0.499		"	0.500		99.8	70-130				
Surrogate: Bromofluorobenzene	0.487		"	0.500		97.3	70-130				
LCS (1924017-BS2)		Prepared & Analyzed: 06/12/19 1									
Gasoline Range Organics (C6-C10)	50.4	20.0	mg/kg	50.0		101	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.496		"	0.500		99.1	70-130				
Surrogate: Toluene-d8	0.492		"	0.500		98.4	70-130				
Surrogate: Bromofluorobenzene	0.482		"	0.500		96.4	70-130				
Matrix Spike (1924017-MS2)	Sourc	e: P906042-	01	Prepared &	Analyzed:	06/12/19 1					
Gasoline Range Organics (C6-C10)	51.8	20.0	mg/kg	50.0	ND	104	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.506		"	0.500		101	70-130				
Surrogate: Toluene-d8	0.497		"	0.500		99.4	70-130				
Surrogate: Bromofluorobenzene	0.484		"	0.500		96.8	70-130				
Matrix Spike Dup (1924017-MSD2)	Sourc	e: P906042-	01 Prepared & Analyzed: 06/12/19 1								
Gasoline Range Organics (C6-C10)	52.6	20.0	mg/kg	50.0	ND	105	70-130	1.55	20		
Surrogate: 1,2-Dichloroethane-d4	0.502		"	0.500		100	70-130				
Surrogate: Toluene-d8	0.493		"	0.500		98.6	70-130				

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RPD

%REC



WPX (Carlsbad) Project Name: Ross Draw Unit #57

5315 Buena Vista DrProject Number:04108-0369Reported:Carlsbad NM, 88220Project Manager:Kris Rowe06/18/19 10:31

Reporting

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Spike

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1924019 - Anion Extraction EPA 30	00.0/9056A									
Blank (1924019-BLK1)				Prepared &	Analyzed:	06/12/19 1				
Chloride	ND	20.0	mg/kg							
LCS (1924019-BS1)				Prepared &	Analyzed:	06/12/19 1				
Chloride	256	20.0	mg/kg	250		102	90-110			
Matrix Spike (1924019-MS1)	Source	: P906042-	01	Prepared &	Analyzed:	06/12/19 1				
Chloride	1060	20.0	mg/kg	250	757	120	80-120			
Matrix Spike Dup (1924019-MSD1)	Source	: P906042-	01	Prepared &	Analyzed:	06/12/19 1				
Chloride	1010	20.0	mg/kg	250	757	99.5	80-120	4.94	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.

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WPX (Carlsbad) Project Name: Ross Draw Unit #57

5315 Buena Vista Dr Project Number: 04108-0369 Reported:
Carlsbad NM, 88220 Project Manager: Kris Rowe 06/18/19 10:31

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

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

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Labadmin@envirotech-inc.com

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Project N		Meric	Rowe		Attention:		PO	WO#	OH.		04	108	-0369					
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City, Stat		1			City, State, Zip		15	15						T			NM CO	UT AZ
Phone:	-7		,		Phone:		8	.80	4			9.				İ		
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Time	Date	F	No		14.11011.	Lab	9	/DR	ρ	ρλ	als 6	rige			1			
Sampled	Sampled	Matrix	Containers	Sample ID	7 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0					Rem	narks
21.10	6/10	Soil	1	SP			X	X	X			X						
				ST2		2												
				SP3		3												
				SP4		4												
				SPS	-	5												
				SP6		6												
				SP	90000000000000000000000000000000000000	7												***
				58		8												
				SPa		9												
				SPIO		<i>d</i> J			1									
Addition	al Instruc	tions:				•	•					1	V	:5%	z i'n	cooler	-1	
				this sample. I am aware t	hat tampering with or intentionally mislabelling the sar d by:	nple location, date or					1			ervation i	must be re	ceived on ice t	ne day they are san uent days.	pled or received
	ed by: (Sign:		Date	/11/2014 Time	45 Occived by (Signature)	Date	119	Time	01%		Rece	eived	on ice:	Y	ab Us N	e Only		
Relinguish.	ed by: (Sign:	ature)	Date	12/19 Time	Received by: (Signature)	Date 6/12/	19	Time	:0	0	T1 AVG	Tem	p°C_	<u>T2</u>			<u>T3</u>	
Sample Mat	rix: S - Soil, S	d - Solid, Sg -		queous, O - Other		Containe	r Typ	e: g - {	glass,						ISS, V -	VOA		
					ner arrangements are made. Hazardous Amples			or dispo	osed of	at the	client	expens	e. The rep	ort for	the anal	ysis of the	above samples	is applicable
only to thos	e samples rei	ceived by the	laboratory v	vith this COC. The liab	oility of the laboratory is limited to the amount p	aid for on the report												

envirotech
Analytical Laboratory

5796 US Highway 64, Farmington, MM 87401
24 Hour Emergency Response Fhone (600) 54

24 Hour Emergency Response Fhone (600) 362-1879

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Page 58 of 282

12	Received by OCD: 1/17/2020
NΑ	y OCD:
ΑZ	1/17/2026
	1:04:28 PM
	PM

					Report Attention	Lab Use Only TAT EPA Progra			am											
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Email:					Em	ail:		<u>2</u>	2	y 80	/ 82	69	le 3(
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID			Lab Number	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0						Re	marks
	6/10	Soil	1	W	SPII	148F - 20000 - 20	11	X	X	X			X							
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Addition	al Instruc	tions:												V	i's	ice	ìΛ	eool	25	
	**	•		f this sample. I am av ds for legal action. Sa		ring with or intentionally mislabelling the sample lo	cation, date or							thermal	preserv	ation mi	ust be reco		e day they are s	ampled or received
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Relinquish	ed by: (Signa		Date	e' Tin		Received by: (Signature)	Date 6/12	119	Time	,00)	T1_		p °C_		<u>T2</u>			<u>T3</u>	
				Aqueous, O - Othe		() (///	Containe													
						gements are made. Hazardous vamples will be elaboratory is limited to the amount paid for			or dispo	sed of	at the	client	expens	e. The	report	t for th	ne analy	sis of the	above sampl	es is applicable



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Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 6/12/2019 Job Number: 04108-0369 Work Order: P906043

Project Name/Location: Ross Draw Unit #57

Report Reviewed By:	Walter Hinder	Date:	6/18/19	
		_		

Walter Hinchman, Laboratory Director



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WPX (Carlsbad) Project Name: Ross Draw Unit #57

5315 Buena Vista Dr Project Number: 04108-0369 Reported:
Carlsbad NM, 88220 Project Manager: Kris Rowe 06/18/19 10:29

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP21	P906043-01A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP22	P906043-02A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP23	P906043-03A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP24	P906043-04A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP25	P906043-05A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP26	P906043-06A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP27	P906043-07A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP28	P906043-08A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP29	P906043-09A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP30	P906043-10A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP31	P906043-11A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP32	P906043-12A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP33	P906043-13A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP34	P906043-14A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP35	P906043-15A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP36	P906043-16A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP37	P906043-17A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP38	P906043-18A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP39	P906043-19A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP40	P906043-20A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 10:29

SP21 P906043-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg 1		1924022	06/12/19	06/13/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1		1924022	06/12/19	06/13/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1		1924022	06/12/19	06/13/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1		1924022	06/12/19	06/13/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1		1924022	06/12/19	06/13/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1		1924022	06/12/19	06/13/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-13	0	1924022	06/12/19	06/13/19	EPA 8260B	
Surrogate: Toluene-d8		104 %	70-13	0	1924022	06/12/19	06/13/19	EPA 8260B	
Surrogate: Bromofluorobenzene		98.7 %	70-13	0	1924022	06/12/19	06/13/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/C	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1		1924023	06/12/19	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1		1924023	06/12/19	06/13/19	EPA 8015D	
Surrogate: n-Nonane		97.7 %	50-20	0	1924023	06/12/19	06/13/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		1924022	06/12/19	06/13/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-13	0	1924022	06/12/19	06/13/19	EPA 8015D	·
Surrogate: Toluene-d8		104 %	70-13	0	1924022	06/12/19	06/13/19	EPA 8015D	
Surrogate: Bromofluorobenzene		98.7 %	70-13	0	1924022	06/12/19	06/13/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	398	20.0	mg/kg 1		1924029	06/12/19	06/13/19	EPA 300.0/9056A	

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



Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe

Reported: 06/18/19 10:29

SP22 P906043-02 (Solid)

		Reporting			_		_	_	
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	I	1924022	06/12/19	06/13/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	I	1924022	06/12/19	06/13/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	I	1924022	06/12/19	06/13/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	l	1924022	06/12/19	06/13/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	I	1924022	06/12/19	06/13/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	l	1924022	06/12/19	06/13/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-13	80	1924022	06/12/19	06/13/19	EPA 8260B	
Surrogate: Toluene-d8		105 %	70-13	80	1924022	06/12/19	06/13/19	EPA 8260B	
Surrogate: Bromofluorobenzene		98.5 %	70-13	80	1924022	06/12/19	06/13/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/6	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	I	1924023	06/12/19	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	l	1924023	06/12/19	06/13/19	EPA 8015D	
Surrogate: n-Nonane		101 %	50-20	00	1924023	06/12/19	06/13/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	I	1924022	06/12/19	06/13/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-13	80	1924022	06/12/19	06/13/19	EPA 8015D	
Surrogate: Toluene-d8		105 %	70-13	80	1924022	06/12/19	06/13/19	EPA 8015D	
Surrogate: Bromofluorobenzene		98.5 %	70-13	80	1924022	06/12/19	06/13/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	127	20.0	mg/kg	1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe

Reported: 06/18/19 10:29

SP23 P906043-03 (Solid)

P906043-03 (Solid)												
		Reporting										
Analyte	Result	Limit	Units D	ilution Batch	Prepared	Analyzed	Method	Notes				
Volatile Organic Compounds by 8260												
Benzene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/13/19	EPA 8260B					
Toluene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/13/19	EPA 8260B					
Ethylbenzene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/13/19	EPA 8260B					
p,m-Xylene	ND	0.0500	mg/kg 1	1924022	06/12/19	06/13/19	EPA 8260B					
o-Xylene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/13/19	EPA 8260B					
Total Xylenes	ND	0.0250	mg/kg 1	1924022	06/12/19	06/13/19	EPA 8260B					
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	1924022	06/12/19	06/13/19	EPA 8260B	_				
Surrogate: Toluene-d8		106 %	70-130	1924022	06/12/19	06/13/19	EPA 8260B					
Surrogate: Bromofluorobenzene		97.2 %	70-130	1924022	06/12/19	06/13/19	EPA 8260B					
Nonhalogenated Organics by 8015 - DRO/O	RO											
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924023	06/12/19	06/13/19	EPA 8015D					
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924023	06/12/19	06/13/19	EPA 8015D					
Surrogate: n-Nonane		99.0 %	50-200	1924023	06/12/19	06/13/19	EPA 8015D					
Nonhalogenated Organics by 8015 - GRO												
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924022	06/12/19	06/13/19	EPA 8015D					
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	1924022	06/12/19	06/13/19	EPA 8015D					
Surrogate: Toluene-d8		106 %	70-130	1924022	06/12/19	06/13/19	EPA 8015D					
Surrogate: Bromofluorobenzene		97.2 %	70-130	1924022	06/12/19	06/13/19	EPA 8015D					
Anions by 300.0/9056A												
Chloride	320	20.0	mg/kg 1	1924029	06/12/19	06/13/19	EPA 300.0/9056A					

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 10:29

SP24 P906043-04 (Solid)

			43-04 (Soliu)					
		Reporting						
Analyte	Result	Limit	Units Dil	ution Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/13/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/13/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/13/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1924022	06/12/19	06/13/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/13/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1924022	06/12/19	06/13/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130	1924022	06/12/19	06/13/19	EPA 8260B	
Surrogate: Toluene-d8		106 %	70-130	1924022	06/12/19	06/13/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.6 %	70-130	1924022	06/12/19	06/13/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/O	ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924023	06/12/19	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924023	06/12/19	06/13/19	EPA 8015D	
Surrogate: n-Nonane		102 %	50-200	1924023	06/12/19	06/13/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924022	06/12/19	06/13/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130	1924022	06/12/19	06/13/19	EPA 8015D	
Surrogate: Toluene-d8		106 %	70-130	1924022	06/12/19	06/13/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.6 %	70-130	1924022	06/12/19	06/13/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	326	20.0	mg/kg 1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe

Reported: 06/18/19 10:29

SP25 P906043-05 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70	130	1924022	06/12/19	06/13/19	EPA 8260B	
Surrogate: Toluene-d8		105 %	70-	130	1924022	06/12/19	06/13/19	EPA 8260B	
Surrogate: Bromofluorobenzene		96.6 %	70	130	1924022	06/12/19	06/13/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/0	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924023	06/12/19	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924023	06/12/19	06/13/19	EPA 8015D	
Surrogate: n-Nonane		97.6 %	50-2	200	1924023	06/12/19	06/13/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70	130	1924022	06/12/19	06/13/19	EPA 8015D	
Surrogate: Toluene-d8		105 %	70	130	1924022	06/12/19	06/13/19	EPA 8015D	
Surrogate: Bromofluorobenzene		96.6 %	70	130	1924022	06/12/19	06/13/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	306	20.0	mg/kg	1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe

Reported:

06/18/19 10:29

SP26 P906043-06 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-1.	30	1924022	06/12/19	06/13/19	EPA 8260B	
Surrogate: Toluene-d8		103 %	70-1.	30	1924022	06/12/19	06/13/19	EPA 8260B	
Surrogate: Bromofluorobenzene		99.4 %	70-1.	30	1924022	06/12/19	06/13/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO	O/ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924023	06/12/19	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924023	06/12/19	06/13/19	EPA 8015D	
Surrogate: n-Nonane		98.9 %	50-20	00	1924023	06/12/19	06/13/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GR	0								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-1.	30	1924022	06/12/19	06/13/19	EPA 8015D	
Surrogate: Toluene-d8		103 %	70-1.	30	1924022	06/12/19	06/13/19	EPA 8015D	
Surrogate: Bromofluorobenzene		99.4 %	70-1.	30	1924022	06/12/19	06/13/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	20.6	20.0	mg/kg	1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe

Reported:

06/18/19 10:29

SP27 P906043-07 (Solid)

		Reporting	43-07 (SUIU)					
Analyte	Result	Limit	Units Dilutio	on Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		104 %	70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		99.4 %	70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/6	ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924023	06/12/19	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924023	06/12/19	06/13/19	EPA 8015D	
Surrogate: n-Nonane		97.4 %	50-200	1924023	06/12/19	06/13/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		104 %	70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		99.4 %	70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	330	20.0	mg/kg 1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

04108-0369

Kris Rowe

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: Reported:

06/18/19 10:29

SP28 P906043-08 (Solid)

		Reporting	43-00 (Sulu)					
Analyte	Result	Limit	Units Dilutio	on Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		103 %	70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.9 %	70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/0	ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924023	06/12/19	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924023	06/12/19	06/13/19	EPA 8015D	
Surrogate: n-Nonane		98.0 %	50-200	1924023	06/12/19	06/13/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		103 %	70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.9 %	70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	293	20.0	mg/kg 1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: 04108-0369 Project Manager: Kris Rowe **Reported:** 06/18/19 10:29

SP29 P906043-09 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-	130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		106 %	70-	130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		99.7 %	70-	130	1924022	06/12/19	06/14/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/OR	O								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924023	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924023	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		100 %	50-	200	1924023	06/12/19	06/14/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-	130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		106 %	70-	130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		99.7 %	70-	130	1924022	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	426	20.0	mg/kg	1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 10:29

SP30 P906043-10 (Solid)

		Reporting	45-10 (Sulta)					
Analyte	Result	Limit	Units D	ilution Batel	n Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	19240	22 06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	19240	22 06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	19240	22 06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	19240	22 06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	19240	22 06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	19240	22 06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130	19240.	22 06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		102 %	70-130	19240.	22 06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		98.2 %	70-130	19240.	22 06/12/19	06/14/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/	ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	19240	23 06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	19240	23 06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		101 %	50-200	19240.	23 06/12/19	06/14/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	19240	22 06/12/19	06/14/19	EPA 8015D	_
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130	19240	22 06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		102 %	70-130	19240.	22 06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		98.2 %	70-130	19240	22 06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	208	20.0	mg/kg 1	19240	29 06/12/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe

Reported: 06/18/19 10:29

SP31 P906043-11 (Solid)

P900043-11 (S0lld)											
		Reporting									
Analyte	Result	Limit	Units D	ilution Batch	Prepared	Analyzed	Method	Notes			
Volatile Organic Compounds by 8260											
Benzene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B				
Toluene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B				
Ethylbenzene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B				
p,m-Xylene	ND	0.0500	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B				
o-Xylene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B				
Total Xylenes	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B				
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	1924022	06/12/19	06/14/19	EPA 8260B				
Surrogate: Toluene-d8		103 %	70-130	1924022	06/12/19	06/14/19	EPA 8260B				
Surrogate: Bromofluorobenzene		98.3 %	70-130	1924022	06/12/19	06/14/19	EPA 8260B				
Nonhalogenated Organics by 8015 - DRO/O	RO										
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924023	06/12/19	06/14/19	EPA 8015D				
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924023	06/12/19	06/14/19	EPA 8015D				
Surrogate: n-Nonane		98.9 %	50-200	1924023	06/12/19	06/14/19	EPA 8015D				
Nonhalogenated Organics by 8015 - GRO											
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8015D	_			
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	1924022	06/12/19	06/14/19	EPA 8015D				
Surrogate: Toluene-d8		103 %	70-130	1924022	06/12/19	06/14/19	EPA 8015D				
Surrogate: Bromofluorobenzene		98.3 %	70-130	1924022	06/12/19	06/14/19	EPA 8015D				
Anions by 300.0/9056A											
Chloride	1370	20.0	mg/kg 1	1924029	06/12/19	06/13/19	EPA 300.0/9056A				

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe

Reported:

06/18/19 10:29

SP32 P906043-12 (Solid)

		Reporting	45-12 (Solid)					
Analyte	Result	Limit	Units Dilu	ution Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		105 %	70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.8 %	70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/	ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924023	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924023	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		97.4 %	50-200	1924023	06/12/19	06/14/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		105 %	70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.8 %	70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	246	20.0	mg/kg 1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 10:29

SP33 P906043-13 (Solid)

		Reporting	43-13 (Sulta)						
Analyte	Result	Limit	Units D	ilution E	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg 1	19	24022	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	19	24022	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	19	24022	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	19	24022	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	19	24022	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	19:	24022	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	19.	24022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		102 %	70-130	19.	24022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		96.5 %	70-130	19.	24022	06/12/19	06/14/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO	ORO .								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	19	24023	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	19:	24023	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		98.1 %	50-200	19.	24023	06/12/19	06/14/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	19	24022	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	19.	24022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		102 %	70-130	19.	24022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		96.5 %	70-130	19.	24022	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	347	20.0	mg/kg 1	19	24029	06/12/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe

Reported:

06/18/19 10:29

SP34 P906043-14 (Solid)

		Reporting						
Analyte	Result	Limit	Units Dil	ution Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		104 %	70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		98.5 %	70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO	D/ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924023	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924023	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		101 %	50-200	1924023	06/12/19	06/14/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO)							
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		104 %	70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		98.5 %	70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	1100	20.0	mg/kg 1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: 04108-0369 Project Manager: Kris Rowe

Reported: 06/18/19 10:29

SP35 P906043-15 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-	130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		103 %	70-1	130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		101 %	70-1	130	1924022	06/12/19	06/14/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/O	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924023	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924023	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		99.7 %	50-2	200	1924023	06/12/19	06/14/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-	130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		103 %	70-1	130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		101 %	70-1	130	1924022	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1030	20.0	mg/kg	1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 10:29

SP36 P906043-16 (Solid)

		Reporting	10 10 (001						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-1	30	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		105 %	70-1	30	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		99.1 %	70-1	30	1924022	06/12/19	06/14/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/O	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924023	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924023	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		102 %	50-2	200	1924023	06/12/19	06/14/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-1	30	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		105 %	70-1	30	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		99.1 %	70-1	30	1924022	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	381	20.0	mg/kg	1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe

Reported: 06/18/19 10:29

SP37

P906043-17 (Solid)

			43-17 (Solid)					
		Reporting						
Analyte	Result	Limit	Units Di	ution Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		102 %	70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		98.5 %	70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/O	ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924023	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924023	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		99.5 %	50-200	1924023	06/12/19	06/14/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		102 %	70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		98.5 %	70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	454	20.0	mg/kg 1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 10:29

SP38 P906043-18 (Solid)

		Reporting			_		_	_	_
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg 1		1924022	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1		1924022	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1		1924022	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1		1924022	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1		1924022	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1		1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-13	0	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		102 %	70-13	0	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		98.0 %	70-13	0	1924022	06/12/19	06/14/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1		1924023	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1		1924023	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		100 %	50-20	0	1924023	06/12/19	06/14/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-13	0	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		102 %	70-13	0	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		98.0 %	70-13	0	1924022	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	824	20.0	mg/kg 1		1924029	06/12/19	06/13/19	EPA 300.0/9056A	

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5796 Highway 64, Farmington, NM 87401

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

Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 10:29

SP39 P906043-19 (Solid)

		Reporting	45-17 (Solid)					
Analyte	Result	Limit	Units Dilution	n Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	1924022	06/12/19	06/14/19	EPA 8260B	<u> </u>
Surrogate: Toluene-d8		103 %	70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		98.6 %	70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO	O/ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924023	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924023	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		99.1 %	50-200	1924023	06/12/19	06/14/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO)							
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		103 %	70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		98.6 %	70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	204	20.0	mg/kg 1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	

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5796 Highway 64, Farmington, NM 87401

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



Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 10:29

SP40 P906043-20 (Solid)

		Reporting	43-20 (Solid)						
Analyte	Result	Limit	Units I	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg 1		1924022	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1		1924022	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1		1924022	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1		1924022	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1		1924022	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1		1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130)	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		104 %	70-130)	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		98.0 %	70-130)	1924022	06/12/19	06/14/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1		1924023	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1		1924023	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		99.0 %	50-200)	1924023	06/12/19	06/14/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130)	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		104 %	70-130)	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		98.0 %	70-130)	1924022	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	449	20.0	mg/kg 1		1924029	06/12/19	06/13/19	EPA 300.0/9056A	

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WPX (Carlsbad) Project Name: Ross Draw Unit #57

5315 Buena Vista Dr Project Number: 04108-0369 Reported: 06/18/19 10:29 Carlsbad NM, 88220 Project Manager: Kris Rowe

Volatile Organic Compounds by 8260 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1924022 - Purge and Trap EPA 5030A										
Blank (1924022-BLK1)				Prepared: (06/12/19 1 <i>A</i>	Analyzed: 0	6/13/19 1			
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 1,2-Dichloroethane-d4	0.488		"	0.500		97.5	70-130			
Surrogate: Toluene-d8	0.517		"	0.500		103	70-130			
Surrogate: Bromofluorobenzene	0.501		"	0.500		100	70-130			
LCS (1924022-BS1)				Prepared: (06/12/19 1 <i>A</i>	Analyzed: 0	6/13/19 1			
Benzene	2.59	0.0250	mg/kg	2.50		103	70-130			
Toluene	2.60	0.0250	"	2.50		104	70-130			
Ethylbenzene	2.60	0.0250	"	2.50		104	70-130			
p,m-Xylene	4.94	0.0500	"	5.00		98.8	70-130			
o-Xylene	2.42	0.0250	"	2.50		97.0	70-130			
Total Xylenes	7.37	0.0250	"	7.50		98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		"	0.500		94.4	70-130			
Surrogate: Toluene-d8	0.522		"	0.500		104	70-130			
Surrogate: Bromofluorobenzene	0.487		"	0.500		97.4	70-130			
Matrix Spike (1924022-MS1)	Sou	rce: P906043-	01	Prepared: (06/12/19 1 <i>A</i>	Analyzed: 0	6/13/19 1			
Benzene	2.56	0.0250	mg/kg	2.50	ND	102	48-131			
Toluene	2.61	0.0250	"	2.50	ND	104	48-130			
Ethylbenzene	2.57	0.0250	"	2.50	ND	103	45-135			
p,m-Xylene	4.91	0.0500	"	5.00	ND	98.2	43-135			
o-Xylene	2.41	0.0250	"	2.50	ND	96.6	43-135			
Total Xylenes	7.32	0.0250	"	7.50	ND	97.7	43-135			
Surrogate: 1,2-Dichloroethane-d4	0.509		"	0.500		102	70-130			
Surrogate: Toluene-d8	0.526		"	0.500		105	70-130			
Surrogate: Bromofluorobenzene	0.491		"	0.500		98.2	70-130			
Matrix Spike Dup (1924022-MSD1)	Sou	rce: P906043-	01	Prepared: (06/12/19 1 <i>A</i>	Analyzed: 0	6/13/19 1			
Benzene	2.57	0.0250	mg/kg	2.50	ND	103	48-131	0.293	23	
Toluene	2.57	0.0250	"	2.50	ND	103	48-130	1.24	24	
Ethylbenzene	2.57	0.0250	"	2.50	ND	103	45-135	0.195	27	
p,m-Xylene	4.90	0.0500	"	5.00	ND	97.9	43-135	0.265	27	
o-Xylene	2.40	0.0250	"	2.50	ND	95.9	43-135	0.665	27	
Total Xylenes	7.30	0.0250	"	7.50	ND	97.3	43-135	0.397	27	
Surrogate: 1,2-Dichloroethane-d4	0.492		"	0.500		98.3	70-130			
Surrogate: Toluene-d8	0.528		"	0.500		106	70-130			
Surrogate: Bromofluorobenzene	0.491		"	0.500		98.2	70-130			
surrogaie. Bromojiuorovenzene	0.491			0.500		70.2	/0-130			

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5796 Highway 64, Farmington, NM 87401

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

WPX (Carlsbad) Project Name: Ross Draw Unit #57

5315 Buena Vista Dr Project Number: 04108-0369 Reported:
Carlsbad NM, 88220 Project Manager: Kris Rowe 06/18/19 10:29

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 1924023 - DRO Extraction EPA 3570										
Blank (1924023-BLK1)				Prepared: (06/12/19 1 A	Analyzed: 0	6/13/19 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	52.4		"	50.0		105	50-200			
LCS (1924023-BS1)				Prepared: (06/12/19 1 A	Analyzed: 0	6/13/19 1			
Diesel Range Organics (C10-C28)	528	25.0	mg/kg	500		106	38-132			
Surrogate: n-Nonane	53.8		"	50.0		108	50-200			
Matrix Spike (1924023-MS1)	Sour	ce: P906043-	01	Prepared: (06/12/19 1 A	Analyzed: 0	6/13/19 2			
Diesel Range Organics (C10-C28)	465	25.0	mg/kg	500	ND	93.0	38-132			
Surrogate: n-Nonane	49.8		"	50.0		99.6	50-200			
Matrix Spike Dup (1924023-MSD1)	Sour	ce: P906043-	01	Prepared: (06/12/19 1 A	Analyzed: 0	6/13/19 2			
Diesel Range Organics (C10-C28)	444	25.0	mg/kg	500	ND	88.9	38-132	4.54	20	
Surrogate: n-Nonane	48.6		"	50.0		97.2	50-200			

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WPX (Carlsbad) Project Name: Ross Draw Unit #57

0.513

5315 Buena Vista Dr Project Number: 04108-0369 Reported:
Carlsbad NM, 88220 Project Manager: Kris Rowe 06/18/19 10:29

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Spike

0.500

103

70-130

Source

%REC

RPD

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1924022 - Purge and Trap EPA 5030A										
Blank (1924022-BLK1)				Prepared: (06/12/19 1	Analyzed: 0	6/13/19 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.488		"	0.500		97.5	70-130			
Surrogate: Toluene-d8	0.517		"	0.500		103	70-130			
Surrogate: Bromofluorobenzene	0.501		"	0.500		100	70-130			
LCS (1924022-BS2)				Prepared: (06/12/19 1 /	Analyzed: 0	6/13/19 1			
Gasoline Range Organics (C6-C10)	59.3	20.0	mg/kg	50.0		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		"	0.500		98.5	70-130			
Surrogate: Toluene-d8	0.528		"	0.500		106	70-130			
Surrogate: Bromofluorobenzene	0.486		"	0.500		97.2	70-130			
Matrix Spike (1924022-MS2)	Sour	ce: P906043-	01	Prepared: (06/12/19 1	Analyzed: 0	6/13/19 1			
Gasoline Range Organics (C6-C10)	59.1	20.0	mg/kg	50.0	ND	118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		"	0.500		100	70-130			
Surrogate: Toluene-d8	0.523		"	0.500		105	70-130			
Surrogate: Bromofluorobenzene	0.495		"	0.500		98.9	70-130			
Matrix Spike Dup (1924022-MSD2)	Sour	ce: P906043-	01	Prepared: (06/12/19 1 /	Analyzed: 0	6/13/19 1			
Gasoline Range Organics (C6-C10)	53.9	20.0	mg/kg	50.0	ND	108	70-130	9.20	20	
Surrogate: 1,2-Dichloroethane-d4	0.487		"	0.500		97.3	70-130			
Surrogate: Toluene-d8	0.528		"	0.500		106	70-130			

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 ${\it Surrogate: Bromofluor obenzene}$

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RPD

%REC



WPX (Carlsbad) Project Name: Ross Draw Unit #57

5315 Buena Vista Dr Project Number: 04108-0369 Reported: 06/18/19 10:29 Carlsbad NM, 88220 Project Manager: Kris Rowe

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Spike

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1924029 - Anion Extraction EPA 300	.0/9056A									
Blank (1924029-BLK1)				Prepared: (06/12/19 1 /	Analyzed: 0	6/12/19 2			
Chloride	ND	20.0	mg/kg							
LCS (1924029-BS1)				Prepared: (06/12/19 1	Analyzed: 0	6/13/19 0			
Chloride	257	20.0	mg/kg	250		103	90-110			
Matrix Spike (1924029-MS1)	Source	e: P906043-	02	Prepared: (06/12/19 1 /	Analyzed: 0	6/13/19 0			
Chloride	406	20.0	mg/kg	250	127	112	80-120			
Matrix Spike Dup (1924029-MSD1)	Source	e: P906043-	02	Prepared: (06/12/19 1	Analyzed: 0	6/13/19 0			
Chloride	392	20.0	mg/kg	250	127	106	80-120	3.57	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.

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WPX (Carlsbad) Project Name: Ross Draw Unit #57

5315 Buena Vista Dr Project Number: 04108-0369 Reported: 06/18/19 10:29 Carlsbad NM, 88220 Project Manager: Kris Rowe

Notes and Definitions

Analyte DETECTED DET

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

Methods marked with ** are non-accredited methods.

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Project Information	Chain of Custody								Page S of 12
Client: With Carlshad Project: Prox Draw Unit 1157 Project Manager: Cris Powe Address: Un file	Report Attention Report due by: Attention: Address:	Lab Use Only Lab WO# Job Number P906043 04108-036 Analysis and Me				1mber 8-0361	TAT 1D 3D	RCRA	EPA Program CWA SDWA State
City, State, Zip Phone: Email: Time Date Matrix No Sample ID	City, State, Zip Phone: Email:	DRO/ORO by 8015	GRU/URU BY 8015 BTEX by 8021	VOC by 8260		Chloride 300.0			Page S of 12 EPA Program CWA SDWA State NM CO UT AZ X Remarks
Sampled Sampled Containers	Number \		X X	9		<u> </u>			INCINIAL KS
SP SP SP	22 23 24 24 26 27 28								
Additional Instructions:	April 1990 Company of the Company of	J	11				V:s	ice t	'n cooler
Relinquished by: (Signature) Date Time	Received by: (Signature) Received by: (Signature) Date Date Containe her arrangements are made. Hazardous samples will be returned to	Type: g	me 10:4 16:0 g - glass, isposed o	O	Received in in the Received In its AVG To a large received in	ved on ice: emp °C	trab Us y/ N T2 er glass, v -	ceived on ice 6 °C on subse Se Only	the day they are sampled or received equent days.



roject Inf	ormation					Chain of Cu	ıstody									1	age 4	of 12
Client: Project: Project M Address:	WPX Ross D lanager:	Caribbi RAW U KRIS on fi	NI Ro	T #5 WE	17	Report Attention Report due by: Attention: Address:	1				Lab Use Only Job Number O4108-03 Analysis and			b Number 1D		RCRA	CWA	SDWA
City, State Phone: Email:	e, Zip Date	1		No		City, State, Zip Phone: Email:	Lab	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0				X CO	
Sampled	Sampled	Matrix		Containers	Sample ID		Number	X DRO	∠ GRO	X	VOC	Met	X Cho				Rer	marks
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					SP 33		13											***************************************
				-	SP 34		14											,
			-		SP 35 SP 36		15											
			\dagger		SP 37		17											
					SP 38		18											
		1	-	1,	SP 39		19											
Addition	al Instruc			Ψ	SP 40		90	1	_ v	₩			V				1	
					this sample. I am aware is	that tampering with or intentionally mislabelling the sample d	ocation, date or						s requiring thermal press in ice at an avg temp ab	ervation m	ust be re		ne day they are sa	mpled or received
W	d by: (Signa d by: (Signa	MUT	し	Date Date	111/294 Time 12/19 Time 10:	Received by: (Signature) Received by: (Signature) Received by: (Signature)	Date Date 6/12/1		Time	:45 :00		T1	eived on ice:	T2	/ N	se Only	<u>T3</u>	
					Aqueous, O - Other	her arrangements are made. Hazardous samples will							astic, ag - amb					



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Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 6/12/2019 Job Number: 04108-0369 Work Order: P906044

Project Name/Location: Ross Draw Unit #57

Report Reviewed By:	Walter Winder	Date:	6/18/19	
-				

Walter Hinchman, Laboratory Director



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WPX (Carlsbad) Project Name: Ross Draw Unit #57

5315 Buena Vista Dr Project Number: 04108-0369 Reported:
Carlsbad NM, 88220 Project Manager: Kris Rowe 06/18/19 13:28

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP41	P906044-01A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP42	P906044-02A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP43	P906044-03A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP44	P906044-04A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP45	P906044-05A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP46	P906044-06A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP47	P906044-07A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP48	P906044-08A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP49	P906044-09A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP50	P906044-10A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP51	P906044-11A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP52	P906044-12A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP53	P906044-13A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP54	P906044-14A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP55	P906044-15A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP56	P906044-16A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP57	P906044-17A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP58	P906044-18A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP59	P906044-19A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP60	P906044-20A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.

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5796 Highway 64, Farmington, NM 87401

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

Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 13:28

SP41 P906044-01 (Solid)

			44-01 (30110	1)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg		1924024	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg		1924024	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg		1924024	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg		1924024	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg		1924024	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	l	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-13	20	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		100 %	70-13	80	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		98.8 %	70-13	20	1924024	06/12/19	06/14/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/O	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg		1924027	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	l	1924027	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		98.2 %	50-20	00	1924027	06/12/19	06/14/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	l	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-13	80	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		100 %	70-13	20	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		98.8 %	70-13	80	1924024	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1210	20.0	mg/kg		1924032	06/12/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: 04108-0369 Project Manager: Kris Rowe

Reported:

06/18/19 13:28

SP42 P906044-02 (Solid)

		Reporting						
Analyte	Result	Limit	Units Dilution	on Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		99.9 %	70-130	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		96.5 %	70-130	1924024	06/12/19	06/14/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/0	ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924027	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924027	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		97.2 %	50-200	1924027	06/12/19	06/14/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		99.9 %	70-130	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		96.5 %	70-130	1924024	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	1260	20.0	mg/kg 1	1924032	06/12/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: 04108-0369 Project Manager: Kris Rowe

Reported:

06/18/19 13:28

SP43 P906044-03 (Solid)

P900044-03 (S0Ha)											
		Reporting						-			
Analyte	Result	Limit	Units Di	ution Batch	Prepared	Analyzed	Method	Notes			
Volatile Organic Compounds by 8260											
Benzene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B				
Toluene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B				
Ethylbenzene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B				
p,m-Xylene	ND	0.0500	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B				
o-Xylene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B				
Total Xylenes	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B				
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130	1924024	06/12/19	06/14/19	EPA 8260B				
Surrogate: Toluene-d8		99.1 %	70-130	1924024	06/12/19	06/14/19	EPA 8260B				
Surrogate: Bromofluorobenzene		97.8 %	70-130	1924024	06/12/19	06/14/19	EPA 8260B				
Nonhalogenated Organics by 8015 - DRO/O	RO										
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924027	06/12/19	06/14/19	EPA 8015D				
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924027	06/12/19	06/14/19	EPA 8015D				
Surrogate: n-Nonane		98.4 %	50-200	1924027	06/12/19	06/14/19	EPA 8015D				
Nonhalogenated Organics by 8015 - GRO											
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8015D				
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130	1924024	06/12/19	06/14/19	EPA 8015D				
Surrogate: Toluene-d8		99.1 %	70-130	1924024	06/12/19	06/14/19	EPA 8015D				
Surrogate: Bromofluorobenzene		97.8 %	70-130	1924024	06/12/19	06/14/19	EPA 8015D				
Anions by 300.0/9056A											
Chloride	175	20.0	mg/kg 1	1924032	06/12/19	06/13/19	EPA 300.0/9056A				

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 13:28

SP44 P906044-04 (Solid)

			HH-0H (Bolla)					
		Reporting						
Analyte	Result	Limit	Units Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		101 %	70-130	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		95.9 %	70-130	1924024	06/12/19	06/14/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO)/ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924027	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924027	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		100 %	50-200	1924027	06/12/19	06/14/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO)							
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		101 %	70-130	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		95.9 %	70-130	1924024	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	451	20.0	mg/kg 1	1924032	06/12/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: 04108-0369 Project Manager: Kris Rowe

Reported: 06/18/19 13:28

SP45 P906044-05 (Solid)

		Reporting							
Analyte	Result	Limit	Units I	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg 1		1924024	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1		1924024	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1		1924024	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1		1924024	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1		1924024	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1		1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130)	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		98.5 %	70-130)	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.2 %	70-130)	1924024	06/12/19	06/14/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/0	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1		1924027	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1		1924027	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		96.3 %	50-200)	1924027	06/12/19	06/14/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130)	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		98.5 %	70-130)	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.2 %	70-130)	1924024	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg 1		1924032	06/12/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe

Reported: 06/18/19 13:28

SP46 P906044-06 (Solid)

		F 9000	44-06 (Solia)					
		Reporting						
Analyte	Result	Limit	Units Diluti	on Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		99.2 %	70-130	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		96.5 %	70-130	1924024	06/12/19	06/14/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/O	RO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924027	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924027	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		97.5 %	50-200	1924027	06/12/19	06/14/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		99.2 %	70-130	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		96.5 %	70-130	1924024	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	185	20.0	mg/kg 1	1924032	06/12/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 13:28

SP47 P906044-07 (Solid)

			44-07 (SUIIU)					
		Reporting						
Analyte	Result	Limit	Units Dilu	tion Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		99.6 %	70-130	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		96.8 %	70-130	1924024	06/12/19	06/14/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/O	RO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924027	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924027	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		95.0 %	50-200	1924027	06/12/19	06/14/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		99.6 %	70-130	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		96.8 %	70-130	1924024	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	232	20.0	mg/kg 1	1924032	06/12/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: 04108-0369 Project Manager: Kris Rowe

Reported: 06/18/19 13:28

SP48

P906044-08 (Solid)

Reporting											
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
Volatile Organic Compounds by 8260											
Benzene	ND	0.0250	mg/kg	l	1924024	06/12/19	06/14/19	EPA 8260B			
Toluene	ND	0.0250	mg/kg	l	1924024	06/12/19	06/14/19	EPA 8260B			
Ethylbenzene	ND	0.0250	mg/kg	l	1924024	06/12/19	06/14/19	EPA 8260B			
p,m-Xylene	ND	0.0500	mg/kg	l	1924024	06/12/19	06/14/19	EPA 8260B			
o-Xylene	ND	0.0250	mg/kg	l	1924024	06/12/19	06/14/19	EPA 8260B			
Total Xylenes	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B			
Surrogate: 1,2-Dichloroethane-d4		102 %	70-13	20	1924024	06/12/19	06/14/19	EPA 8260B			
Surrogate: Toluene-d8		98.3 %	70-13	80	1924024	06/12/19	06/14/19	EPA 8260B			
Surrogate: Bromofluorobenzene		97.1 %	70-13	20	1924024	06/12/19	06/14/19	EPA 8260B			
Nonhalogenated Organics by 8015 - DRO	/ORO										
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	I	1924027	06/12/19	06/14/19	EPA 8015D			
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	l	1924027	06/12/19	06/14/19	EPA 8015D			
Surrogate: n-Nonane		98.0 %	50-20	00	1924027	06/12/19	06/14/19	EPA 8015D			
Nonhalogenated Organics by 8015 - GRO											
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	l	1924024	06/12/19	06/14/19	EPA 8015D			
Surrogate: 1,2-Dichloroethane-d4		102 %	70-13	20	1924024	06/12/19	06/14/19	EPA 8015D			
Surrogate: Toluene-d8		98.3 %	70-13	80	1924024	06/12/19	06/14/19	EPA 8015D			
Surrogate: Bromofluorobenzene		97.1 %	70-13	30	1924024	06/12/19	06/14/19	EPA 8015D			
Anions by 300.0/9056A											
Chloride	294	20.0	mg/kg	l	1924032	06/12/19	06/13/19	EPA 300.0/9056A			

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe Reported:

06/18/19 13:28

SP49 P906044-09 (Solid)

		Reporting	44-07 (SOIIU)	1					
Analyte	Result	Limit	Units I	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg 1		1924024	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1		1924024	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1		1924024	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1		1924024	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1		1924024	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1		1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130)	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		98.9 %	70-130)	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		96.5 %	70-130)	1924024	06/12/19	06/14/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/Ol	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1		1924027	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1		1924027	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		102 %	50-200)	1924027	06/12/19	06/14/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130)	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		98.9 %	70-130)	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		96.5 %	70-130)	1924024	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	186	20.0	mg/kg 1		1924032	06/12/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe Reported:

06/18/19 13:28

SP50 P906044-10 (Solid)

			44-10 (5011	u)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-13	30	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		99.9 %	70-13	30	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		96.0 %	70-13	30	1924024	06/12/19	06/14/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/Ol	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924027	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924027	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		99.0 %	50-20	00	1924027	06/12/19	06/14/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-13	30	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		99.9 %	70-13	30	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		96.0 %	70-13	30	1924024	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	229	20.0	mg/kg	1	1924032	06/12/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 13:28

SP51 P906044-11 (Solid)

		Reporting							-
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-	130	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		99.4 %	70-	130	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		95.8 %	70-	130	1924024	06/12/19	06/14/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924027	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924027	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		99.1 %	50-	200	1924027	06/12/19	06/14/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-	130	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		99.4 %	70-	130	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		95.8 %	70-	130	1924024	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	794	20.0	mg/kg	1	1924032	06/12/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe

Reported: 06/18/19 13:28

SP52 P906044-12 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-1.	30	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		98.3 %	70-1.	30	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		95.4 %	70-1.	30	1924024	06/12/19	06/14/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO	/ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924027	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924027	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		99.8 %	50-2	00	1924027	06/12/19	06/14/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO)								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-1.	30	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		98.3 %	70-1.	30	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		95.4 %	70-1.	30	1924024	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	105	20.0	mg/kg	1	1924032	06/12/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe

Reported:

06/18/19 13:28

SP53 P906044-13 (Solid)

		Reporting	44-13 (Sulu)					
Analyte	Result	Limit	Units Dilut	ion Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		99.7 %	70-130	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		97.7 %	70-130	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		96.3 %	70-130	1924024	06/12/19	06/14/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/	ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924027	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924027	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		97.9 %	50-200	1924027	06/12/19	06/14/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		99.7 %	70-130	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		97.7 %	70-130	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		96.3 %	70-130	1924024	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	62.4	20.0	mg/kg 1	1924032	06/12/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 13:28

SP54 P906044-14 (Solid)

		Reporting	44-14 (SUIG	· <i>)</i>					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg 1		1924024	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1		1924024	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1		1924024	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1		1924024	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1		1924024	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1		1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-13	0	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		101 %	70-13	0	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.0 %	70-13	0	1924024	06/12/19	06/14/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1		1924027	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1		1924027	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		97.1 %	50-20	0	1924027	06/12/19	06/14/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-13	0	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		101 %	70-13	0	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.0 %	70-13	0	1924024	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	314	20.0	mg/kg 1		1924032	06/12/19	06/13/19	EPA	

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300.0/9056A



Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: 04108-0369 Project Manager: Kris Rowe

Reported: 06/18/19 13:28

SP55 P906044-15 (Solid)

		Reporting	44-13 (Sulu)					
Analyte	Result	Limit	Units Dilutio	on Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		98.6 %	70-130	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		96.4 %	70-130	1924024	06/12/19	06/14/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DR	O/ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924027	06/12/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924027	06/12/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		97.2 %	50-200	1924027	06/12/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GR	0							
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		98.6 %	70-130	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		96.4 %	70-130	1924024	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	1070	20.0	mg/kg 1	1924032	06/12/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe

Reported: 06/18/19 13:28

SP56

P906044-16 (Solid)

		P9060	44-16 (Solid)					
		Reporting						
Analyte	Result	Limit	Units Dilution	n Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		99.7 %	70-130	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		98.9 %	70-130	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		95.8 %	70-130	1924024	06/12/19	06/14/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO	O/ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924027	06/12/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924027	06/12/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		96.2 %	50-200	1924027	06/12/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO	0							
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		99.7 %	70-130	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		98.9 %	70-130	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		95.8 %	70-130	1924024	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	299	20.0	mg/kg 1	1924032	06/12/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: 04108-0369 Project Manager: Kris Rowe

Reported: 06/18/19 13:28

SP57

P906044-17 (Solid)

P906044-17 (Solid)												
		Reporting										
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes			
Volatile Organic Compounds by 8260												
Benzene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B				
Toluene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B				
Ethylbenzene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B				
p,m-Xylene	ND	0.0500	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B				
o-Xylene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B				
Total Xylenes	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B				
Surrogate: 1,2-Dichloroethane-d4		99.5 %	70-1	130	1924024	06/12/19	06/14/19	EPA 8260B				
Surrogate: Toluene-d8		98.1 %	70-1	130	1924024	06/12/19	06/14/19	EPA 8260B				
Surrogate: Bromofluorobenzene		95.1 %	70-1	130	1924024	06/12/19	06/14/19	EPA 8260B				
Nonhalogenated Organics by 8015 - DRO/O	ORO											
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924027	06/12/19	06/15/19	EPA 8015D				
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924027	06/12/19	06/15/19	EPA 8015D				
Surrogate: n-Nonane		96.7 %	50-2	200	1924027	06/12/19	06/15/19	EPA 8015D				
Nonhalogenated Organics by 8015 - GRO												
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8015D				
Surrogate: 1,2-Dichloroethane-d4		99.5 %	70-1	130	1924024	06/12/19	06/14/19	EPA 8015D				
Surrogate: Toluene-d8		98.1 %	70-1	130	1924024	06/12/19	06/14/19	EPA 8015D				
Surrogate: Bromofluorobenzene		95.1 %	70-1	130	1924024	06/12/19	06/14/19	EPA 8015D				
Anions by 300.0/9056A												
Chloride	941	20.0	mg/kg	1	1924032	06/12/19	06/13/19	EPA 300.0/9056A				

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5796 Highway 64, Farmington, NM 87401

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

Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 13:28

SP58

P906044-18 (Solid)

		1 7000	44-18 (50	iiu)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-	130	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		98.6 %	70-	130	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		96.8 %	70-	130	1924024	06/12/19	06/14/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924027	06/12/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924027	06/12/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		96.8 %	50-	200	1924027	06/12/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-	130	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		98.6 %	70-	130	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		96.8 %	70-	130	1924024	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	251	20.0	mg/kg	1	1924032	06/12/19	06/13/19	EPA 300.0/9056A	

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5796 Highway 64, Farmington, NM 87401

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



Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 13:28

SP59

P906044-19 (Solid)

			TT-17 (50						
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-	130	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		97.9 %	70-	130	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		96.2 %	70-	130	1924024	06/12/19	06/14/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/OF	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924027	06/12/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924027	06/12/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		97.9 %	50-	200	1924027	06/12/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-	130	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		97.9 %	70-	130	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		96.2 %	70-	130	1924024	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	243	20.0	mg/kg	1	1924032	06/12/19	06/13/19	EPA 300.0/9056A	

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5796 Highway 64, Farmington, NM 87401

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe Reported:

06/18/19 13:28

SP60 P906044-20 (Solid)

			44-20 (SUIIC	1)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg 1		1924024	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1		1924024	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1		1924024	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1		1924024	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1		1924024	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1		1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-13	0	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		101 %	70-13	0	1924024	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		96.4 %	70-13	0	1924024	06/12/19	06/14/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/6	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1		1924027	06/12/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1		1924027	06/12/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		100 %	50-20	0	1924027	06/12/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-13	0	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		101 %	70-13	0	1924024	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		96.4 %	70-13	0	1924024	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1590	20.0	mg/kg 1		1924032	06/12/19	06/13/19	EPA 300.0/9056A	

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5796 Highway 64, Farmington, NM 87401

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

5315 Buena Vista DrProject Number:04108-0369Reported:Carlsbad NM, 88220Project Manager:Kris Rowe06/18/19 13:28

Volatile Organic Compounds by 8260 - Quality Control

Envirotech Analytical Laboratory

Simple ND			Reporting		Spike	Source		%REC		RPD	
Property	Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Properties Pro	Batch 1924024 - Purge and Trap EPA 5030A										
ND					Prepared: ()6/12/19 1 <i>A</i>	Analyzed: 0	6/14/19 0			
Strong	Benzene	ND	0.0250	mg/kg							
New Notes	Toluene	ND	0.0250	"							
No.	Ethylbenzene	ND	0.0250								
No	o,m-Xylene		0.0500	"							
Surrogate: 1.2-Dichloroethane48	o-Xylene			"							
Anguar	Total Xylenes	ND	0.0250	"							
Name of the strong place brown place bro	Surrogate: 1,2-Dichloroethane-d4	0.517		"	0.500		103	70-130			
	Surrogate: Toluene-d8	0.490		"	0.500		98.0	70-130			
Serverie	Surrogate: Bromofluorobenzene	0.490		"	0.500		97.9	70-130			
Tollane	LCS (1924024-BS1)				Prepared: (06/12/19 1 A	Analyzed: 0	6/13/19 2			
Carbon C	Benzene	2.51	0.0250		2.50						
Name 1	Toluene	2.55	0.0250	"	2.50		102	70-130			
Name	Ethylbenzene	2.51	0.0250	"	2.50		100	70-130			
Total Xylenes	o,m-Xylene	4.94	0.0500	"	5.00		98.8	70-130			
Natrix Spike (1924024-MS1) Source: P906044-01 Prepared: 06/12/19 1 Analyzed: 06/14/19 0	o-Xylene	2.47	0.0250		2.50		98.6	70-130			
Matrix Spike (1924024-MS1) Source: P906044-01 Prepared: 06/12/19 Analyzed: 06/14/19 0	Total Xylenes	7.40	0.0250	"	7.50		98.7	70-130			
Natrix Spike (1924024-MS1) Source: P906044-01 Prepared: 06/12/19 1 Analyzed: 06/14/19 0	Surrogate: 1,2-Dichloroethane-d4	0.490		"	0.500		98.0	70-130			
Matrix Spike (1924024-MS1) Source: P906044-01 Prepared: 06/12/19 1 Analyzed: 06/14/19 0 Senzene 2.54 0.0250 mg/kg 2.50 ND 102 48-131 100 100 100 100 100 100 100 100 100	Surrogate: Toluene-d8	0.498		"	0.500		99.6	70-130			
Senzene 2.54	Surrogate: Bromofluorobenzene	0.490		"	0.500		98.0	70-130			
Toluene	Matrix Spike (1924024-MS1)	Sou	rce: P906044-	01	Prepared: (06/12/19 1 A	Analyzed: 0	6/14/19 0			
Surrogate: Brownoffuorochane-def 2.50	Benzene	2.54	0.0250	mg/kg	2.50	ND	102	48-131			
A-98 0.0500 " 5.00 ND 99.5 43-135	Toluene	2.57	0.0250	"	2.50	ND	103	48-130			
2.49 0.0250 2.50 ND 99.7 43-135 Total Xylenes 7.47 0.0250 7.50 ND 99.6 43-135 Surrogate: 1,2-Dichloroethane-d4 0.516 0.500 0.500 103 70-130 Surrogate: Bromofluorobenzene 0.494 0.500 98.8 70-130 Surrogate: Bromofluorobenzene 0.494 0.500 98.8 70-130 Matrix Spike Dup (1924024-MSD1) Source: P906044-01 Prepared: 06/12/19 Analyzed: 06/14/19 0 Benzene 2.50 0.0250 mg/kg 2.50 ND 100 48-131 1.63 23 Total Ethylbenzene 2.57 0.0250 2.50 ND 104 48-130 1.14 24 Ethylbenzene 2.57 0.0250 2.50 ND 103 45-135 1.83 27 OXylene 5.07 0.0500 5.00 ND 101 43-135 1.80 27 OXylene 2.53 0.0250 2.50 ND 101 43-135 1.61 27 Total Xylenes 7.60 0.0250 7.50 ND 101 43-135 1.74 27 Surrogate: 1,2-Dichloroethane-d4 0.511 0.500 102 70-130 Surrogate: Toluene-d8 0.501 0.500 100 70-130 Total Xylene-d8 0.501 0.500 0.500 100 70-130 Total Xylene-d8 0.501 0.500 0.500 100 70-130 Total Xylene-d8 0.501 0.500 0.500 100 70-130 Total Xylene-d8 0.501 0.500 0.500 100 70-130 Total Xylene-d8 0.501 0.500 0.500 100 70-130 Total Xylene-d8 0.501 0.500 0.500 100 70-130 Total Xylene-d8 0.501 0.500	Ethylbenzene	2.52	0.0250	"	2.50	ND	101	45-135			
Form	p,m-Xylene	4.98	0.0500		5.00	ND	99.5	43-135			
Surrogate: 1,2-Dichloroethane-d4 0.516 " 0.500 103 70-130	o-Xylene										
Surrogate: I,2-Dichloroethane-d4	Total Xylenes	7.47	0.0250		7.50	ND	99.6	43-135			
Matrix Spike Dup (1924024-MSD1) Source: P906044-01 Prepared: 06/12/19 1 Analyzed: 06/14/19 0 Benzene 2.50 0.0250 mg/kg 2.50 ND 100 48-131 1.63 23 Toluene 2.60 0.0250 " 2.50 ND 104 48-130 1.14 24 Ethylbenzene 2.57 0.0250 " 2.50 ND 103 45-135 1.83 27 0.70-Xylene 5.07 0.0500 " 5.00 ND 101 43-135 1.80 27 0-Xylene 2.53 0.0250 " 2.50 ND 101 43-135 1.61 27 10tal Xylenes 7.60 0.0250 " 7.50 ND 101 43-135 1.74 27 5urrogate: 1,2-Dichloroethane-d4 0.511 " 0.500 102 70-130 5urrogate: Toluene-d8 0.501 " 0.500 100 70-130	Surrogate: 1,2-Dichloroethane-d4	0.516		"	0.500		103	70-130			
Matrix Spike Dup (1924024-MSD1) Source: P906044-01 Prepared: 06/12/19 1 Analyzed: 06/14/19 0 Benzene 2.50 0.0250 mg/kg 2.50 ND 100 48-131 1.63 23 Toluene 2.50 ND 104 48-130 1.14 24 Ethylbenzene 2.57 0.0250 " 2.50 ND 103 45-135 1.83 27 0,m-Xylene 5.07 0.0500 " 5.00 ND 101 43-135 1.80 27 0-Xylene 2.53 0.0250 " 2.50 ND 101 43-135 1.80 27 0-Xylene 0.504 ND 101 43-135 1.80 27 0-Xylene 0.505 ND 101 43-135 1.61 27 0-Xylene 0.501 ND 101 43-135 1.74 27 Surrogate: 1,2-Dichloroethane-d4 0.511 " 0.500 100 70-130	Surrogate: Toluene-d8	0.498		"	0.500		99.6	70-130			
Benzene 2.50 0.0250 mg/kg 2.50 ND 100 48-131 1.63 23 Foluene 2.60 0.0250 " 2.50 ND 104 48-130 1.14 24 Ethylbenzene 2.57 0.0250 " 2.50 ND 103 45-135 1.83 27 com-Xylene 5.07 0.0500 " 5.00 ND 101 43-135 1.80 27 Sylvene 2.53 0.0250 " 2.50 ND 101 43-135 1.60 27 Fotal Xylene 2.53 0.0250 " 7.50 ND 101 43-135 1.61 27 Fotal Xylene 7.60 0.0250 " 7.50 ND 101 43-135 1.74 27 Surrogate: 1,2-Dichloroethane-d4 0.511 " 0.500 100 70-130	Surrogate: Bromofluorobenzene	0.494		"	0.500		98.8	70-130			
Toluene 2.60 0.0250 " 2.50 ND 104 48-130 1.14 24 Ethylbenzene 2.57 0.0250 " 2.50 ND 103 45-135 1.83 27 p.m-Xylene 5.07 0.0500 " 5.00 ND 101 43-135 1.80 27 p.y-Xylene 2.53 0.0250 " 2.50 ND 101 43-135 1.80 27 p.y-Xylene 2.53 0.0250 " 2.50 ND 101 43-135 1.61 27 Total Xylenes 7.60 0.0250 " 7.50 ND 101 43-135 1.74 27 Surrogate: 1,2-Dichloroethane-d4 0.511 " 0.500 100 70-130	Matrix Spike Dup (1924024-MSD1)	Sou	rce: P906044-	01	Prepared: (06/12/19 1 A	Analyzed: 0	6/14/19 0			
Total Kylene 2.50 0.0250 " 2.50 ND 103 45-135 1.83 27 0.0250 " 5.00 ND 101 43-135 1.80 27 0.0000 " 5.00 ND 101 43-135 1.80 27 0.0000 " 5.00 ND 101 43-135 1.61 27 0.0000 " 7.50 ND 101 43-135 1.74 27 0.0000 " 7.5	Benzene	2.50	0.0250	mg/kg	2.50	ND	100	48-131	1.63	23	
2.57 0.0250 2.50 ND 103 43-153 1.85 27	Toluene	2.60	0.0250	"	2.50	ND	104	48-130	1.14	24	
2.53 0.0250 " 2.50 ND 101 43-135 1.61 27 Total Xylenes 7.60 0.0250 " 7.50 ND 101 43-135 1.74 27 Surrogate: 1,2-Dichloroethane-d4 0.511 " 0.500 100 70-130 Surrogate: Toluene-d8 0.501 " 0.500 100 70-130	Ethylbenzene	2.57	0.0250	"	2.50	ND	103	45-135	1.83	27	
Factor 2.55 0.0250 2.50 ND 101 43-155 1.51 27	o,m-Xylene	5.07	0.0500	"	5.00	ND	101	43-135	1.80	27	
Notes Assertices 7.00 0.0250 7.50 ND 101 43-153 1.74 27 Surrogate: 1,2-Dichloroethane-d4 0.511 " 0.500 102 70-130 Surrogate: Toluene-d8 0.501 " 0.500 100 70-130	p-Xylene	2.53	0.0250		2.50	ND	101	43-135	1.61		
Surrogate: Toluene-d8 0.501 " 0.500 100 70-130	Total Xylenes	7.60	0.0250	"	7.50	ND	101	43-135	1.74	27	
	Surrogate: 1,2-Dichloroethane-d4	0.511		"	0.500		102	70-130			
Surrogate: Remofluorabensene 0.495 " 0.500 99.0 70.130	Surrogate: Toluene-d8	0.501		"	0.500		100	70-130			
	Surrogate: Bromofluorobenzene	0.495		"	0.500		99.0	70-130			

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5796 Highway 64, Farmington, NM 87401

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



 5315 Buena Vista Dr
 Project Number:
 04108-0369
 Reported:

 Carlsbad NM, 88220
 Project Manager:
 Kris Rowe
 06/18/19 13:28

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 1924027 - DRO Extraction EPA 3570										
Blank (1924027-BLK1)				Prepared: (06/12/19 1 <i>A</i>	Analvzed: 0	6/17/19 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	48.3		"	50.0		96.6	50-200			
LCS (1924027-BS1)				Prepared: (06/12/19 1 A	Analyzed: 0	6/17/19 1			
Diesel Range Organics (C10-C28)	453	25.0	mg/kg	500		90.6	38-132			
Surrogate: n-Nonane	50.0		"	50.0		99.9	50-200			
Matrix Spike (1924027-MS1)	Sour	ce: P906044-	01	Prepared: (06/12/19 1 A	Analyzed: 0	6/17/19 1			
Diesel Range Organics (C10-C28)	383	25.0	mg/kg	500	ND	76.5	38-132			
Surrogate: n-Nonane	49.7		"	50.0		99.4	50-200			
Matrix Spike Dup (1924027-MSD1)	Sour	ce: P906044-	01	Prepared: (06/12/19 1 A	Analyzed: 0	6/17/19 1			
Diesel Range Organics (C10-C28)	375	25.0	mg/kg	500	ND	75.0	38-132	2.10	20	
Surrogate: n-Nonane	50.2		"	50.0		100	50-200			

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5796 Highway 64, Farmington, NM 87401

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



Project Name:

Reporting

Limit

20.0

mg/kg

50.0

0.500

0.500

0.500

ND

99.5

100

99.2

100

70-130

70-130

70-130

70-130

0.962

20

Result

49.7

0.501

0.496 0.500 Ross Draw Unit #57

Spike

Level

Source

Result

%REC

%REC

Limits

RPD

5315 Buena Vista Dr Carlsbad NM, 88220

Gasoline Range Organics (C6-C10)

Surrogate: 1,2-Dichloroethane-d4

 ${\it Surrogate: Bromofluor obenzene}$

Surrogate: Toluene-d8

Analyte

Project Number: 04108-0369 Project Manager: Kris Rowe **Reported:** 06/18/19 13:28

RPD

Limit

Notes

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Units

Blank (1924024-BLK1)				Prepared: 0	6/12/19 1	Analyzed: (06/14/19 0
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg				
Surrogate: 1,2-Dichloroethane-d4	0.517		"	0.500		103	70-130
Surrogate: Toluene-d8	0.490		"	0.500		98.0	70-130
Surrogate: Bromofluorobenzene	0.490		"	0.500		97.9	70-130
LCS (1924024-BS2)				Prepared: 0	6/12/19 1	Analyzed: (06/13/19 2
Gasoline Range Organics (C6-C10)	47.7	20.0	mg/kg	50.0		95.4	70-130
Surrogate: 1,2-Dichloroethane-d4	0.509		"	0.500		102	70-130
Surrogate: Toluene-d8	0.494		"	0.500		98.8	70-130
Surrogate: Bromofluorobenzene	0.485		"	0.500		96.9	70-130
Matrix Spike (1924024-MS2)	Source	e: P906044-	01	Prepared: 0	6/12/19 1	Analyzed: (06/14/19 0
Gasoline Range Organics (C6-C10)	49.3	20.0	mg/kg	50.0	ND	98.5	70-130
Surrogate: 1,2-Dichloroethane-d4	0.502		"	0.500		100	70-130
Surrogate: Toluene-d8	0.500		"	0.500		100	70-130
Surrogate: Bromofluorobenzene	0.490		"	0.500		97.9	70-130
Matrix Spike Dup (1924024-MSD2)	Source	e: P906044-	01	Prepared: 0	6/12/19 1 2	Analyzed: (06/14/19 0

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RPD

%REC



WPX (Carlsbad) Project Name: Ross Draw Unit #57

5315 Buena Vista Dr Project Number: 04108-0369 Reported: Carlsbad NM, 88220 Project Manager: Kris Rowe 06/18/19 13:28

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Spike

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1924032 - Anion Extraction EPA 30	0.0/9056A									
Blank (1924032-BLK1)				Prepared: (06/12/19 1 A	Analyzed: 0	6/13/19 1			
Chloride	ND	20.0	mg/kg							
LCS (1924032-BS1)				Prepared: (06/12/19 1 A	Analyzed: 0	6/13/19 1			
Chloride	271	20.0	mg/kg	250		108	90-110			
Matrix Spike (1924032-MS1)	Source	e: P906044-	01	Prepared: (06/12/19 1 A	Analyzed: 0	6/13/19 1			
Chloride	1400	20.0	mg/kg	250	1210	77.4	80-120			SPK1
Matrix Spike Dup (1924032-MSD1)	Source	e: P906044-	01	Prepared: (06/12/19 1 A	Analyzed: 0	6/13/19 1			
Chloride	1490	20.0	mg/kg	250	1210	110	80-120	5.61	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.

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5315 Buena Vista Dr Project Number: 04108-0369 Reported:
Carlsbad NM, 88220 Project Manager: Kris Rowe 06/18/19 13:28

Notes and Definitions

SPK1 The spike recovery is outside of quality control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

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

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Labadmin@envirotech-inc.com

envirotech-inc.com

Client:		Carlsbo			Report Attention				La	ab Us	se On	ly		T.	AT		EPA Prog	ram
Project:	Ross D	PAW UN	JIT #5	7-	Report due by:		Lab	WO#		11/18	Job I	Vum.	oer	1D	3D	RCRA	CWA	SDWA
Project N	lanager:				Attention:		PO	WO#	04		041	087	5369					
Address:		ON FIL			Address:								nd Metho	d			5	State
City, Stat		1			City, State, Zip		15	15						T			NM C	O UT AZ
Phone:					Phone:		/ 80	8	+	_		0.						+
Email:					Email:		o b	o P	802	3260	010	300					X	
Time	Date		No		- Lindii	Lab	, a	/DR	, by	ργ	als 6	ride						
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					Re	emarks
	6/10/19	Soil	1	SP 41			X	X	X			X						E .
				SP42		2	1											
				SP 43		3												
;				SP 44		4												
				SP 45		5												
				SP46	11100 200	6												
				SP 47		7												
				SP 48	S. Marie	8												
				SP 49		9												
	V	1	V	SP 50		W	V	V	V			V						
Addition	al Instruc	tions:							•		•	•	Ve	s ,'c	ر ا ف	n co	oler	
				his sample. I am aware tha for legal action. Sampled b	t tampering with or intentionally mislabelling the sample loo y:	cation, date or								rvation n	must be rea	ceived on Ice	the day they are	sampled or received
Relinquish		Aure)	Date O	/II/Jox Time	16 OWNY TWALK	Date	19	Time	:46	•	Rece	eived	on ice:		ab Us N	e Only		
Relinquish	ed by: (Sign	ature)	Date	12/19 Time	Received by: (Signature)	6/12	119	Time	0:0		T1		p°C_	12			<u>T3</u>	
		d - Solid, Sg -		queous, O - Other		Container	r Type	I I						er gla	SS, V -	VOA		
					r arrangements are made. Hazardous samples will b												above samp	les is applicable
					ty of the laboratory is limited to the amount paid for								20			5	70	8000



5796 US Highway 64, Farmington, NM 87401 24 Hour 5 mergency Response Phone (600) 362-1879

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Client:		Carlsb				Report Attention				La	ab Us	e On	У			T/	AT [EPA Progra	m
Project:			NIT#57			Report due by:		Lab	WO#			1 dot	lumb	ber		1D	3D	RCRA		SDWA
	lanager:					Attention:		P9	060	yy y		0410	18-	034	69			-		
Address:		on file			Suit	Address:						Analy.	sis an	nd Me	ethod				St	ate
City, Stat	e, Zip					City, State, Zip		215	315										NM CO	UT AZ
Phone:						Phone:		8 >	86	21	。		0						V	
Email:						Email:		ğ	8 g	/ 80.	826	601	93	8.1						
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID			Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	втех by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1					Ren	narks
	6/10/19	Soil	1	SP51				X	X	X			X							
		1		SP 52			12						1							
				SP 53			13													
				SP 54			14													
				SP 55			15													
				SP 56			16													
				SP 57			17													
				SP 58			18				-		\prod							
				SP 59			19													
	1	1	\	SP 60			20	4	V	1			1							
Additiona	instruct	ions:														v	210	e M	cooker	
ı				s sample. I am aware to or legal action. Sample		pering with or intentionally mislabelling the sample lo	cation, date or								al preserv	ation m	ust be rec		the day they are sa	mpled or received
Relinquishe	d by: (Signa	Denie Denie	Date 6	1/1/20% Time	24	Outney Wall	Date		Time	45		Recei	ved	on ic	ъ.	La	b Use	Only		
Relinquishe			Date	Time	:00	Received by: (Signature)	Date (12/1		Time			T1 AVG			4	12			<u>T3</u>	
Sample Matr	x: S - Soil, Sd	- Solid, Sg - S		ueous, O - Other _				Type:				7	Contract of the	-	mber	glass	. v - V	OA		
Sample Matrix: S - Soil, Sd - Soild, Sg - Sludge, A - Aqueous, O - Other								is applicable												
			555	WE		75.	· · ·					1-1		-				_		



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Page 29 of 29



Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 6/12/2019 Job Number: 04108-0369 Work Order: P906045

Project Name/Location: Ross Draw Unit #57

Report Reviewed By:	Walter Hinkman	Date:	6/18/19	
		_		

Walter Hinchman, Laboratory Director



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5315 Buena Vista DrProject Number:04108-0369Reported:Carlsbad NM, 88220Project Manager:Kris Rowe06/18/19 12:20

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP61	P906045-01A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP62	P906045-02A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP63	P906045-03A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP64	P906045-04A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP65	P906045-05A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP66	P906045-06A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP67	P906045-07A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP68	P906045-08A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP69	P906045-09A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP70	P906045-10A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP71	P906045-11A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP72	P906045-12A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP73	P906045-13A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP74	P906045-14A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP75	P906045-15A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP76	P906045-16A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP77	P906045-17A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP78	P906045-18A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP79	P906045-19A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP80	P906045-20A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 12:20

SP61 P906045-01 (Solid)

		17000	43-01 (SU	iiuj					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		97.0 %	50-	150	1924025	06/12/19	06/14/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924031	06/12/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924031	06/12/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		102 %	50-	-200	1924031	06/12/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	50-	-150	1924025	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1310	20.0	mg/kg	1	1924037	06/13/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe Reported:

06/18/19 12:20

SP62 P906045-02 (Solid)

		Reporting	45 02 (Solia)					
		Reporting						
Analyte	Result	Limit	Units D	ilution Bat	ch Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021								
Benzene	ND	0.0250	mg/kg 1	1924	025 06/12/19	06/14/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1	1924	025 06/12/19	06/14/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg 1	1924	025 06/12/19	06/14/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg 1	1924	025 06/12/19	06/14/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg 1	1924	025 06/12/19	06/14/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg 1	1924	025 06/12/19	06/14/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		96.1 %	50-150	1924	025 06/12/19	06/14/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924	031 06/12/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924	031 06/12/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		100 %	50-200	1924	031 06/12/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924	025 06/12/19	06/14/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	50-150	1924	025 06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	512	20.0	mg/kg 1	1924	06/13/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 12:20

SP63 P906045-03 (Solid)

		Reporting		-					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg 1		1924025	06/12/19	06/14/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1		1924025	06/12/19	06/14/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg 1		1924025	06/12/19	06/14/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg 1		1924025	06/12/19	06/14/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg 1		1924025	06/12/19	06/14/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg 1		1924025	06/12/19	06/14/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		95.6 %	50-15	0	1924025	06/12/19	06/14/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OF	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1		1924031	06/12/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1		1924031	06/12/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		99.7 %	50-20	0	1924031	06/12/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		1924025	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	50-15	0	1924025	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	396	20.0	mg/kg 1		1924037	06/13/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 12:20

SP64 P906045-04 (Solid)

		Reporting	10) 10 61	·,					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		96.5 %	50-	-150	1924025	06/12/19	06/14/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OF	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924031	06/12/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924031	06/12/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		101 %	50-	-200	1924031	06/12/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		104 %	50-	-150	1924025	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	859	20.0	mg/kg	1	1924037	06/13/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: 04108-0369 Project Manager: Kris Rowe

9 **Reported:** 06/18/19 12:20

SP65 P906045-05 (Solid)

		Reporting	43 03 (301	,					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.2 %	50-1	50	1924025	06/12/19	06/14/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924031	06/12/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924031	06/12/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		100 %	50-2	00	1924031	06/12/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	50-1	50	1924025	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	310	20.0	mg/kg	1	1924037	06/13/19	06/13/19	EPA 300.0/9056A	

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5796 Highway 64, Farmington, NM 87401

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

Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 12:20

SP66 P906045-06 (Solid)

		Reporting	100) 00 CF)					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		97.1 %	50-	150	1924025	06/12/19	06/14/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO)								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924031	06/12/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924031	06/12/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		98.4 %	50-2	200	1924031	06/12/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	50-	150	1924025	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	989	20.0	mg/kg	1	1924037	06/13/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 12:20

SP67 P906045-07 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.0 %	50-	-150	1924025	06/12/19	06/14/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORG)								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924031	06/12/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924031	06/12/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		103 %	50-	-200	1924031	06/12/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	50-	-150	1924025	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	243	20.0	mg/kg	1	1924037	06/13/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 12:20

SP68 P906045-08 (Solid)

		1 7000	43-00 (301	iuj					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		97.2 %	50-	150	1924025	06/12/19	06/14/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924031	06/12/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924031	06/12/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		102 %	50-2	200	1924031	06/12/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	50-1	150	1924025	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	323	20.0	mg/kg	1	1924037	06/13/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 12:20

SP69 P906045-09 (Solid)

		Reporting	10 0) (001						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		97.4 %	50-1	150	1924025	06/12/19	06/14/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924031	06/12/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924031	06/12/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		102 %	50-2	200	1924031	06/12/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	50-1	150	1924025	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	920	20.0	mg/kg	1	1924037	06/13/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 12:20

300.0/9056A

SP70 P906045-10 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.7 %	50-1:	50	1924025	06/12/19	06/14/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/Ol	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924031	06/12/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924031	06/12/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		99.3 %	50-20	00	1924031	06/12/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	50-1:	50	1924025	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	853	20.0	mg/kg	1	1924037	06/13/19	06/13/19	EPA	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe Reported:

06/18/19 12:20

SP71 P906045-11 (Solid)

		Reporting	13 11 (501)					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.1 %	50-1	50	1924025	06/12/19	06/14/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924031	06/12/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924031	06/12/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		99.7 %	50-2	200	1924031	06/12/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	50-1	50	1924025	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	336	20.0	mg/kg	1	1924037	06/13/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 12:20

SP72 P906045-12 (Solid)

		1,7000	43-12 (St	onuj					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.7 %	50	-150	1924025	06/12/19	06/14/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO)								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924031	06/12/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924031	06/12/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		101 %	50)-200	1924031	06/12/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	50)-150	1924025	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	568	20.0	mg/kg	1	1924037	06/13/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 12:20

SP73 P906045-13 (Solid)

		1 7000	43-13 (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	1924025	06/12/19	06/14/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.1 %	50-1	50	1924025	06/12/19	06/14/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/Ol	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924031	06/12/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924031	06/12/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		101 %	50-2	200	1924031	06/12/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	50-1	50	1924025	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	515	20.0	mg/kg	1	1924037	06/13/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager:

04108-0369 Kris Rowe Reported:

06/18/19 12:20

SP74 P906045-14 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.4 %	50-1	50	1924025	06/12/19	06/14/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924031	06/12/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924031	06/12/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		102 %	50-2	000	1924031	06/12/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	50-1	50	1924025	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	196	20.0	mg/kg	1	1924037	06/13/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 12:20

SP75

P906045-15 (Solid)

		1 / 000	43-13 (301	iuj					
		Reporting			·	·			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %	50-1	50	1924025	06/12/19	06/14/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924031	06/12/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924031	06/12/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		99.3 %	50-2	200	1924031	06/12/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924025	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	50-1	50	1924025	06/12/19	06/14/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	250	20.0	mg/kg	1	1924037	06/13/19	06/13/19	EPA 300.0/9056A	

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



Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 12:20

SP76 P906045-16 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg 1		1924025	06/12/19	06/15/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1		1924025	06/12/19	06/15/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg 1		1924025	06/12/19	06/15/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg 1		1924025	06/12/19	06/15/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg 1		1924025	06/12/19	06/15/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg 1		1924025	06/12/19	06/15/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.4 %	50-15	0	1924025	06/12/19	06/15/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/	ORO								
Diesel Range Organics (C10-C28)	34.2	25.0	mg/kg 1		1924031	06/12/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1		1924031	06/12/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		101 %	50-20	0	1924031	06/12/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		1924025	06/12/19	06/15/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	50-15	0	1924025	06/12/19	06/15/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	3430	20.0	mg/kg 1		1924037	06/13/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 12:20

SP77 P906045-17 (Solid)

		Reporting							
Analyte	Result	Limit	Units I	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg 1		1924025	06/12/19	06/15/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1		1924025	06/12/19	06/15/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg 1		1924025	06/12/19	06/15/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg 1		1924025	06/12/19	06/15/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg 1		1924025	06/12/19	06/15/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg 1		1924025	06/12/19	06/15/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50-150)	1924025	06/12/19	06/15/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/0	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1		1924031	06/12/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1		1924031	06/12/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		104 %	50-200)	1924031	06/12/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		1924025	06/12/19	06/15/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	50-150)	1924025	06/12/19	06/15/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1480	20.0	mg/kg 1		1924037	06/13/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe Reported:

06/18/19 12:20

SP78 P906045-18 (Solid)

		Reporting	45 10 (50)	<i>)</i>					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/15/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/15/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/15/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924025	06/12/19	06/15/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/15/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924025	06/12/19	06/15/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %	50-	150	1924025	06/12/19	06/15/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/6	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924031	06/12/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924031	06/12/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		102 %	50	200	1924031	06/12/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924025	06/12/19	06/15/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	50-	150	1924025	06/12/19	06/15/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	6150	40.0	mg/kg	2	1924037	06/13/19	06/14/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 12:20

300.0/9056A

SP79 P906045-19 (Solid)

		P9000	45-19 (Solia)					
		Reporting						
Analyte	Result	Limit	Units Dilu	tion Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021								
Benzene	ND	0.0250	mg/kg 1	1924025	06/12/19	06/15/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1	1924025	06/12/19	06/15/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg 1	1924025	06/12/19	06/15/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg 1	1924025	06/12/19	06/15/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg 1	1924025	06/12/19	06/15/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg 1	1924025	06/12/19	06/15/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.7 %	50-150	1924025	06/12/19	06/15/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DR	O/ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1924031	06/12/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924031	06/12/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		102 %	50-200	1924031	06/12/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GR	0							
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924025	06/12/19	06/15/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	50-150	1924025	06/12/19	06/15/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	7720	40.0	mg/kg 2	1924037	06/13/19	06/14/19	EPA	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe Reported:

06/18/19 12:20

SP80 P906045-20 (Solid)

		Reporting			-			-	-
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/15/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/15/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/15/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924025	06/12/19	06/15/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924025	06/12/19	06/15/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924025	06/12/19	06/15/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.9 %	50-1	150	1924025	06/12/19	06/15/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924031	06/12/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924031	06/12/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		103 %	50-2	200	1924031	06/12/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924025	06/12/19	06/15/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	50-1	150	1924025	06/12/19	06/15/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	226	20.0	mg/kg	1	1924037	06/13/19	06/13/19	EPA 300.0/9056A	

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5315 Buena Vista Dr Project Number: 04108-0369 Reported:
Carlsbad NM, 88220 Project Manager: Kris Rowe 06/18/19 12:20

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 1924025 - Purge and Trap EPA 5030A										
Blank (1924025-BLK1)				Prepared: (06/12/19 1 A	Analyzed: 0	6/15/19 0			
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	7.97		"	8.00		99.6	50-150			
LCS (1924025-BS1)				Prepared: (06/12/19 1 A	Analyzed: 0	6/15/19 0			
Benzene	4.46	0.0250	mg/kg	5.00		89.2	70-130			
Toluene	4.86	0.0250	"	5.00		97.3	70-130			
Ethylbenzene	4.84	0.0250	"	5.00		96.7	70-130			
p,m-Xylene	9.93	0.0500	"	10.0		99.3	70-130			
o-Xylene	4.83	0.0250	"	5.00		96.6	70-130			
Total Xylenes	14.8	0.0250	"	15.0		98.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.04		"	8.00		101	50-150			
Matrix Spike (1924025-MS1)	Sou	rce: P906045-	01	Prepared: (06/12/19 1 A	Analyzed: 0	6/15/19 0			
Benzene	4.44	0.0250	mg/kg	5.00	ND	88.8	54.3-133			
Toluene	4.84	0.0250	"	5.00	ND	96.8	61.4-130			
Ethylbenzene	4.81	0.0250	"	5.00	ND	96.2	61.4-133			
p,m-Xylene	9.89	0.0500	"	10.0	ND	98.9	63.3-131			
o-Xylene	4.82	0.0250	"	5.00	ND	96.3	63.3-131			
Total Xylenes	14.7	0.0250	"	15.0	ND	98.0	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8.04		"	8.00		101	50-150			
Matrix Spike Dup (1924025-MSD1)	Sou	rce: P906045-	01	Prepared: (06/12/19 1 A	Analyzed: 0	6/15/19 0			
Benzene	4.46	0.0250	mg/kg	5.00	ND	89.2	54.3-133	0.492	20	
Toluene	4.87	0.0250	"	5.00	ND	97.3	61.4-130	0.507	20	
Ethylbenzene	4.84	0.0250	"	5.00	ND	96.9	61.4-133	0.669	20	
p,m-Xylene	9.95	0.0500	"	10.0	ND	99.5	63.3-131	0.595	20	
o-Xylene	4.85	0.0250	"	5.00	ND	96.9	63.3-131	0.648	20	
Total Xylenes	14.8	0.0250	"	15.0	ND	98.6	63.3-131	0.612	20	
Surrogate: 4-Bromochlorobenzene-PID	8.00		"	8.00		100	50-150			

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5315 Buena Vista DrProject Number:04108-0369Reported:Carlsbad NM, 88220Project Manager:Kris Rowe06/18/19 12:20

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 1924031 - DRO Extraction EPA 3570										
Blank (1924031-BLK1)				Prepared: (06/12/19 1 A	Analyzed: 0	6/17/19 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	54.3		"	50.0		109	50-200			
LCS (1924031-BS1)				Prepared: (06/12/19 1 A	Analyzed: 0	6/17/19 1			
Diesel Range Organics (C10-C28)	532	25.0	mg/kg	500		106	38-132			
Surrogate: n-Nonane	56.6		"	50.0		113	50-200			
Matrix Spike (1924031-MS1)	Sour	rce: P906045-	01	Prepared: (06/12/19 1 A	Analyzed: 0	6/17/19 1			
Diesel Range Organics (C10-C28)	306	25.0	mg/kg	500	ND	61.2	38-132			
Surrogate: n-Nonane	51.6		"	50.0		103	50-200			
Matrix Spike Dup (1924031-MSD1)	Sour	rce: P906045-	01	Prepared: (06/12/19 1 A	Analyzed: 0	6/17/19 1			
Diesel Range Organics (C10-C28)	334	25.0	mg/kg	500	ND	66.8	38-132	8.78	20	
Surrogate: n-Nonane	49.9		"	50.0		99.7	50-200			

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

5315 Buena Vista DrProject Number:04108-0369Reported:Carlsbad NM, 88220Project Manager:Kris Rowe06/18/19 12:20

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 1924025 - Purge and Trap EPA 5030A										
Blank (1924025-BLK1)				Prepared: (06/12/19 1 /	Analyzed: 0	6/15/19 0			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.08		"	8.00		101	50-150			
LCS (1924025-BS2)				Prepared: (06/12/19 1 /	Analyzed: 0	6/15/19 0			
Gasoline Range Organics (C6-C10)	50.7	20.0	mg/kg	50.0		101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.16		"	8.00		102	50-150			
Matrix Spike (1924025-MS2)	Sour	ce: P906045-	01	Prepared: (06/12/19 1 /	Analyzed: 0	6/15/19 0			
Gasoline Range Organics (C6-C10)	50.1	20.0	mg/kg	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.22		"	8.00		103	50-150			
Matrix Spike Dup (1924025-MSD2)	Sour	ce: P906045-	01	Prepared: (06/12/19 1 /	Analyzed: 0	6/15/19 0			
Gasoline Range Organics (C6-C10)	48.8	20.0	mg/kg	50.0	ND	97.6	70-130	2.63	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.16		"	8.00		102	50-150			

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RPD

%REC



WPX (Carlsbad) Project Name: Ross Draw Unit #57

5315 Buena Vista DrProject Number:04108-0369Reported:Carlsbad NM, 88220Project Manager:Kris Rowe06/18/19 12:20

Reporting

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Spike

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1924037 - Anion Extraction EPA 30	0.0/9056A									
Blank (1924037-BLK1)				Prepared &	Analyzed:	06/13/19 1				
Chloride	ND	20.0	mg/kg							
LCS (1924037-BS1)				Prepared &	Analyzed:	06/13/19 1				
Chloride	252	20.0	mg/kg	250		101	90-110			
Matrix Spike (1924037-MS1)	Source	e: P906045-	01	Prepared &	Analyzed:	06/13/19 1				
Chloride	1280	20.0	mg/kg	250	1310	NR	80-120			SPK1
Matrix Spike Dup (1924037-MSD1)	Source	e: P906045-	01	Prepared &	Analyzed:	06/13/19 1				
Chloride	1530	20.0	mg/kg	250	1310	88.8	80-120	18.1	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.

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

5315 Buena Vista Dr Project Number: 04108-0369 Reported:
Carlsbad NM, 88220 Project Manager: Kris Rowe 06/18/19 12:20

Notes and Definitions

SPK1 The spike recovery is outside of quality control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

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

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Labadmin@envirotech-inc.com

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Client:	WPX						Report	Attention				L	ab U	se Ur					AI			PA Progr	
Project:	ROSS D	Raw	<u>unit</u>	#57		Repor	t due by:			Lab	WO	†		Job	Num	ber	54	1D	3D	RC	RA	CWA	SDWA
Project N	/lanager:	KRIS	ROI	WE		Atten	tion:			P	1060	145	•	10416	18-	036	9						
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City, Stat		1				City, S	State, Zip			15	15										\Box	NM CC	UT AZ
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Time	Date	П	T	No		Lillan	•		Lab	ě) G	þλ	by 8	ls 6	ide						'		
Sampled	Sampled	Matri	×	Containers	Sample ID	_			Number	DRO/ORO	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0							Rei	marks
	6/10/19	Soi		1	SP61					X	X	χ			Х								
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Addition	al Instruc	tions:																v.5	10	erle	nce	oblet	
					his sample. I am aware the	by:	Kevin	<u> </u>								ng thermal							mpled or received
1 /	ed by: (Sign:	ature)	ÉU	Date	111/2014 12:					Received on ice: Lab Use Only													
Relinguish	ed by: (Sign:	ature)		Date	Time	F	ceived by: (Signat	M	Date 12/(9 10,00 T1 T2 T3 AVG Temp °C 4														
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other								Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA															
					re reported unless oth	er arrangem	ents are made. Haza	rdous samples will i													the at	ove sample	s is applicable
					ith this COC The light						. ugget			·	J. 197611	- 45 1156							



5796 US Highway 64, Farmington, NM 87401

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

Client:	<u>WPX</u>						Report A	Attention				La		se On	-			T	AT		EF	PA Progra	am .
Project:	Ross	DRAI	N UN	IT #57		Re	port due by:			Lab	WO#		and the same of th	Job I	Num	ber .		1D	3D	RCF	RA	CWA	SDWA
Project N	1anage	r: K	RIS R	ROWE		Att	ention:			P	WO#	04	5	041	08-	036	,9				\neg		
Address:			n file			Ad	dress:			_						nd Me					\neg	St	ate
City, Stat			1				y, State, Zip			-51	53									T		им со	UT AZ
Phone:	,,		1			E. China I.	one:			by 8015	8015				0								
Email:			4				iail:			ρģ	þ.	302	260	010	300							X	
Time	Date	Т		No.		LII	iaii.		Lab	ORC	'DR(by 8	by 8260	ls 6(ide								
Sampled	Sample		Matrix	Containers	Sample ID				Number	DRO/ORO	GRO/DRO by	BTEX by 8021	VOC	Metals 6010	Chloride 300.0							Ren	marks
	6 [10]	19 5	oil	1	SP 71					X	X	X			X								
			1	1	SP 72				12			1			1								
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			\perp		SP 74				14		Ш	Щ											
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	↓		1		SP 80)		W	90	1	1	1			1								
Addition	al Instr	uctio	ns:	= #7			W W 1480										٧	175	ize	ihe	sol	es	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabe time of collection is considered fraud and may be grounds for legal action. Sampled by:								belling the sample loca	ation, date or					packed II	n ice at a	an avg ter	np abov	e 0 but le	ess than 6	6 C on su	ubseque		npled or received
Relinquished by: (Signature) Date Time Received by: (Signature)							Stune	Date 10.49 Received on ice: 7/N N T1 AVG Temp °C 4															
Relinquished by: (Signature) Fed Ex Date 6/12/19 10:00 Received by: (Signature) Fed Ex							mill	Date' 10.'00 T1 T2 T3															
_		l. Sd - S	olid. Se -	Sludge, A -	Aqueous, O - Other			1/8	Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA														
· · · · · · · · · · · · · · · · · · ·						other arran	gements are made. Hazard	lous samples will be													the ab	ove samples	is applicable
							e laboratory is limited to th													AT AND COURSE	50070mile	ers (thereis shift)	survive dutation in the last



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envirotech-inc-com

labadmin@envirotech.inc.com



Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 6/12/2019 Job Number: 04108-0369 Work Order: P906046

Project Name/Location: Ross Draw Unit #57

Report Reviewed By:	Walter Hinkman	Date:	6/18/19	
-		_	,	

Walter Hinchman, Laboratory Director



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5796 Highway 64, Farmington, NM 87401

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

WPX (Carlsbad) Project Name: Ross Draw Unit #57

5315 Buena Vista DrProject Number:04108-0369Reported:Carlsbad NM, 88220Project Manager:Kris Rowe06/18/19 12:51

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP81	P906046-01A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP82	P906046-02A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP83	P906046-03A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP84	P906046-04A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP85	P906046-05A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP86	P906046-06A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP87	P906046-07A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP88	P906046-08A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP89	P906046-09A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP90	P906046-10A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP91	P906046-11A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP92	P906046-12A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP93	P906046-13A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP94	P906046-14A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP95	P906046-15A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP96	P906046-16A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe Reported:

06/18/19 12:51

SP81 P906046-01 (Solid)

		1 7000	40-01 (SU	iiu)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/15/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/15/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/15/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924026	06/12/19	06/15/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/15/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924026	06/12/19	06/15/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.8 %	50-	150	1924026	06/12/19	06/15/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	43.7	25.0	mg/kg	1	1924034	06/13/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924034	06/13/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		102 %	50	200	1924034	06/13/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924026	06/12/19	06/15/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	50-	150	1924026	06/12/19	06/15/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	2690	20.0	mg/kg	1	1924041	06/13/19	06/13/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 12:51

SP82

P906046-02 (Solid)

Reporting nalyte Result Limit Units Dilution Batch Prepared Analyzed Method Notes													
		Reporting											
Analyte	Result	Limit	Units D	ilution Bate	n Prepared	Analyzed	Method	Notes					
Volatile Organics by EPA 8021													
Benzene	ND	0.0250	mg/kg 1	19240	26 06/12/19	06/15/19	EPA 8021B						
Toluene	ND	0.0250	mg/kg 1	19240	26 06/12/19	06/15/19	EPA 8021B						
Ethylbenzene	ND	0.0250	mg/kg 1	19240	26 06/12/19	06/15/19	EPA 8021B						
p,m-Xylene	ND	0.0500	mg/kg 1	19240	26 06/12/19	06/15/19	EPA 8021B						
o-Xylene	ND	0.0250	mg/kg 1	19240	26 06/12/19	06/15/19	EPA 8021B						
Total Xylenes	ND	0.0250	mg/kg 1	19240	26 06/12/19	06/15/19	EPA 8021B						
Surrogate: 4-Bromochlorobenzene-PID		99.5 %	50-150	19240	26 06/12/19	06/15/19	EPA 8021B						
Nonhalogenated Organics by 8015 - DRO	ORO												
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	19240	34 06/13/19	06/15/19	EPA 8015D						
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	19240	34 06/13/19	06/15/19	EPA 8015D						
Surrogate: n-Nonane		102 %	50-200	19240	34 06/13/19	06/15/19	EPA 8015D						
Nonhalogenated Organics by 8015 - GRO													
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	19240	26 06/12/19	06/15/19	EPA 8015D						
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	50-150	19240	26 06/12/19	06/15/19	EPA 8015D						
Anions by 300.0/9056A													
Chloride	287	20.0	mg/kg 1	19240	41 06/13/19	06/14/19	EPA 300.0/9056A						

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 12:51

SP83 P906046-03 (Solid)

		Reporting	•						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg 1		1924026	06/12/19	06/15/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1		1924026	06/12/19	06/15/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg 1		1924026	06/12/19	06/15/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg 1		1924026	06/12/19	06/15/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg 1		1924026	06/12/19	06/15/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg 1		1924026	06/12/19	06/15/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.7 %	50-150)	1924026	06/12/19	06/15/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OF	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1		1924034	06/13/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1		1924034	06/13/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		100 %	50-200)	1924034	06/13/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		1924026	06/12/19	06/15/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	50-150)	1924026	06/12/19	06/15/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	70.3	20.0	mg/kg 1		1924041	06/13/19	06/14/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe Reported:

06/18/19 12:51

SP84 P906046-04 (Solid)

		Reporting	10 01 (501	,					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/15/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/15/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/15/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924026	06/12/19	06/15/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/15/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924026	06/12/19	06/15/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %	50-1.	50	1924026	06/12/19	06/15/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924034	06/13/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924034	06/13/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		101 %	50-2	00	1924034	06/13/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924026	06/12/19	06/15/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		100 %	50-1.	50	1924026	06/12/19	06/15/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	297	20.0	mg/kg	1	1924041	06/13/19	06/14/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe Reported:

06/18/19 12:51

SP85 P906046-05 (Solid)

		1 7000	40-03 (3011	u)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.5 %	50-1.	50	1924026	06/12/19	06/16/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/Ol	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924034	06/13/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924034	06/13/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		103 %	50-20	00	1924034	06/13/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.9 %	50-1.	50	1924026	06/12/19	06/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	307	20.0	mg/kg	1	1924041	06/13/19	06/14/19	EPA 300.0/9056A	

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



Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 12:51

SP86

P906046-06 (Solid)

		1 7000	40-00 (Sulla)	'					
_		Reporting			·				
Analyte	Result	Limit	Units I	ilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg 1		1924026	06/12/19	06/16/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1		1924026	06/12/19	06/16/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg 1		1924026	06/12/19	06/16/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg 1		1924026	06/12/19	06/16/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg 1		1924026	06/12/19	06/16/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg 1		1924026	06/12/19	06/16/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.5 %	50-150		1924026	06/12/19	06/16/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	O/ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1		1924034	06/13/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1		1924034	06/13/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		104 %	50-200		1924034	06/13/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO)								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		1924026	06/12/19	06/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		100 %	50-150		1924026	06/12/19	06/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	462	20.0	mg/kg 1		1924041	06/13/19	06/14/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 12:51

SP87

P906046-07 (Solid)

		17000	100) 10-01	iuj					
		Reporting	·		·	·			·
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.9 %	50-1	150	1924026	06/12/19	06/16/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OF	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924034	06/13/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924034	06/13/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		102 %	50-2	200	1924034	06/13/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	50-1	150	1924026	06/12/19	06/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	628	20.0	mg/kg	1	1924041	06/13/19	06/14/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: 04108-0369 Project Manager: Kris Rowe Reported:

06/18/19 12:51

SP88 P906046-08 (Solid)

		1 7000	100 (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	1924026	06/12/19	06/16/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %	50-1	150	1924026	06/12/19	06/16/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/Ol	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924034	06/13/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924034	06/13/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		102 %	50-2	200	1924034	06/13/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	50-1	150	1924026	06/12/19	06/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	381	20.0	mg/kg	1	1924041	06/13/19	06/14/19	EPA 300.0/9056A	

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5796 Highway 64, Farmington, NM 87401

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



Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369

Reported:

Kris Rowe 06/18/19 12:51

SP89 P906046-09 (Solid)

		Reporting	40 07 (50						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.8 %	50-	150	1924026	06/12/19	06/16/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORG)								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924034	06/13/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924034	06/13/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		103 %	50	200	1924034	06/13/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	50-	150	1924026	06/12/19	06/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	206	20.0	mg/kg	1	1924041	06/13/19	06/14/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe Reported:

06/18/19 12:51

SP90 P906046-10 (Solid)

		Reporting	10 10 (501	,					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.3 %	50-1	50	1924026	06/12/19	06/16/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924034	06/13/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924034	06/13/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		102 %	50-2	00	1924034	06/13/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	50-1	50	1924026	06/12/19	06/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	597	20.0	mg/kg	1	1924041	06/13/19	06/14/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe Reported:

06/18/19 12:51

SP91 P906046-11 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.6 %	50-1	50	1924026	06/12/19	06/16/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	/ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924034	06/13/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924034	06/13/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		102 %	50-2	00	1924034	06/13/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO)								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	50-1	50	1924026	06/12/19	06/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	2070	20.0	mg/kg	1	1924041	06/13/19	06/14/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 12:51

SP92

P906046-12 (Solid)

		1 7000	40-12 (Sona	,					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg 1		1924026	06/12/19	06/16/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1		1924026	06/12/19	06/16/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg 1		1924026	06/12/19	06/16/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg 1		1924026	06/12/19	06/16/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg 1		1924026	06/12/19	06/16/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg 1		1924026	06/12/19	06/16/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.4 %	50-150	9	1924026	06/12/19	06/16/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1		1924034	06/13/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1		1924034	06/13/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		101 %	50-200	9	1924034	06/13/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		1924026	06/12/19	06/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	50-150	9	1924026	06/12/19	06/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	691	20.0	mg/kg 1		1924041	06/13/19	06/14/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 12:51

SP93

P906046-13 (Solid)

		1 7000	40-13 (3011	u)					
		Reporting	·		·	·			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.2 %	50-15	50	1924026	06/12/19	06/16/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	ORO								
Diesel Range Organics (C10-C28)	108	25.0	mg/kg	1	1924034	06/13/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924034	06/13/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		103 %	50-20	00	1924034	06/13/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		100 %	50-15	50	1924026	06/12/19	06/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	4000	20.0	mg/kg	1	1924041	06/13/19	06/14/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

04108-0369

Kris Rowe

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: Reported:

06/18/19 12:51

SP94 P906046-14 (Solid)

		Reporting		-					-
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.1 %	50-	150	1924026	06/12/19	06/16/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924034	06/13/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924034	06/13/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		107 %	50	200	1924034	06/13/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	50-	150	1924026	06/12/19	06/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	218	20.0	mg/kg	1	1924041	06/13/19	06/14/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 12:51

SP95

P906046-15 (Solid)

		Reporting	•						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Ethylbenzene	0.0263	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.9 %	50-1.	50	1924026	06/12/19	06/16/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	D/ORO								
Diesel Range Organics (C10-C28)	3820	125	mg/kg	5	1924034	06/13/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	674	250	mg/kg	5	1924034	06/13/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		117 %	50-2	00	1924034	06/13/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO)								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	50-1.	50	1924026	06/12/19	06/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	655	20.0	mg/kg	1	1924041	06/13/19	06/14/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220

Project Number: Project Manager: 04108-0369 Kris Rowe

Reported: 06/18/19 12:51

SP96 P906046-16 (Solid)

		1 7000	JC) DI DF	maj					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.3 %	50-	-150	1924026	06/12/19	06/16/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/Ol	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924034	06/13/19	06/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924034	06/13/19	06/18/19	EPA 8015D	
Surrogate: n-Nonane		102 %	50-	-200	1924034	06/13/19	06/18/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924026	06/12/19	06/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	50-	-150	1924026	06/12/19	06/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	604	20.0	mg/kg	1	1924041	06/13/19	06/14/19	EPA	

EPA 300.0/9056A

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WPX (Carlsbad) Project Name: Ross Draw Unit #57

5315 Buena Vista Dr Project Number: 04108-0369 Reported: 06/18/19 12:51 Carlsbad NM, 88220 Project Manager: Kris Rowe

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyta	Pagult	Reporting	Unite	Spike	Source	%REC	%REC	RPD	RPD Limit	Notes
Analyte	Result	Limit	Units	Level	Result	70KEC	Limits	KPD	Limit	Notes
Batch 1924026 - Purge and Trap EPA 5030A										
Blank (1924026-BLK1)				Prepared: (06/12/19 1 A	Analyzed: 0	06/15/19 1			
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	7.86		"	8.00		98.2	50-150			
LCS (1924026-BS1)				Prepared: (06/12/19 1 <i>A</i>	Analyzed: 0	06/15/19 1			
Benzene	3.94	0.0250	mg/kg	5.00		78.7	70-130			
Toluene	4.28	0.0250	"	5.00		85.7	70-130			
Ethylbenzene	4.28	0.0250	"	5.00		85.5	70-130			
p,m-Xylene	8.81	0.0500	"	10.0		88.1	70-130			
o-Xylene	4.28	0.0250	"	5.00		85.7	70-130			
Total Xylenes	13.1	0.0250	"	15.0		87.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.79		"	8.00		97.4	50-150			
Matrix Spike (1924026-MS1)	Sou	rce: P906046-	01	Prepared: (06/12/19 1 <i>A</i>	Analyzed: 0	06/15/19 2			
Benzene	4.16	0.0250	mg/kg	5.00	ND	83.2	54.3-133			
Toluene	4.52	0.0250	"	5.00	ND	90.4	61.4-130			
Ethylbenzene	4.51	0.0250	"	5.00	ND	90.2	61.4-133			
p,m-Xylene	9.28	0.0500	"	10.0	ND	92.8	63.3-131			
o-Xylene	4.51	0.0250	"	5.00	ND	90.2	63.3-131			
Total Xylenes	13.8	0.0250	"	15.0	ND	91.9	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	7.90		"	8.00		98.8	50-150			
Matrix Spike Dup (1924026-MSD1)	Sou	rce: P906046-	01	Prepared: (06/12/19 1 <i>A</i>	Analyzed: 0	06/15/19 2			
Benzene	4.03	0.0250	mg/kg	5.00	ND	80.5	54.3-133	3.25	20	
Toluene	4.40	0.0250	"	5.00	ND	88.0	61.4-130	2.72	20	
Ethylbenzene	4.38	0.0250	"	5.00	ND	87.7	61.4-133	2.87	20	
p,m-Xylene	9.03	0.0500	"	10.0	ND	90.3	63.3-131	2.69	20	
o-Xylene	4.38	0.0250	"	5.00	ND	87.6	63.3-131	2.88	20	
Total Xylenes	13.4	0.0250	"	15.0	ND	89.4	63.3-131	2.75	20	
Surrogate: 4-Bromochlorobenzene-PID	8.00		"	8.00		100	50-150			
~										

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5796 Highway 64, Farmington, NM 87401

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

WPX (Carlsbad) Project Name: Ross Draw Unit #57

5315 Buena Vista DrProject Number:04108-0369Reported:Carlsbad NM, 88220Project Manager:Kris Rowe06/18/19 12:51

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 1924034 - DRO Extraction EPA 3570										
Blank (1924034-BLK1)				Prepared: (06/13/19 0 A	Analyzed: 0	6/18/19 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	50.6		"	50.0		101	50-200			
LCS (1924034-BS1)				Prepared: (06/13/19 0 A	Analyzed: 0	6/17/19 1			
Diesel Range Organics (C10-C28)	451	25.0	mg/kg	500		90.2	38-132			
Surrogate: n-Nonane	47.6		"	50.0		95.3	50-200			
Matrix Spike (1924034-MS1)	Sour	rce: P906046-	01	Prepared: (06/13/19 0 A	Analyzed: 0	6/17/19 1			
Diesel Range Organics (C10-C28)	453	25.0	mg/kg	500	43.7	81.8	38-132			
Surrogate: n-Nonane	50.4		"	50.0		101	50-200			
Matrix Spike Dup (1924034-MSD1)	Sour	rce: P906046-	01	Prepared: (06/13/19 0 A	Analyzed: 0	6/17/19 2			
Diesel Range Organics (C10-C28)	522	25.0	mg/kg	500	43.7	95.7	38-132	14.2	20	
Surrogate: n-Nonane	50.5		"	50.0		101	50-200			

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5796 Highway 64, Farmington, NM 87401

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

WPX (Carlsbad) Project Name: Ross Draw Unit #57

5315 Buena Vista Dr Project Number: 04108-0369 Reported:
Carlsbad NM, 88220 Project Manager: Kris Rowe 06/18/19 12:51

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 1924026 - Purge and Trap EPA 5030A										
Blank (1924026-BLK1)				Prepared: (06/12/19 1	Analyzed: 0	06/15/19 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.18		"	8.00		102	50-150			
LCS (1924026-BS2)				Prepared: (06/12/19 1	Analyzed: 0	06/15/19 1			
Gasoline Range Organics (C6-C10)	50.2	20.0	mg/kg	50.0		100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.30		"	8.00		104	50-150			
Matrix Spike (1924026-MS2)	Sourc	e: P906046-	01	Prepared: (06/12/19 1	Analyzed: 0	06/15/19 2			
Gasoline Range Organics (C6-C10)	48.4	20.0	mg/kg	50.0	ND	96.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.06		"	8.00		101	50-150			
Matrix Spike Dup (1924026-MSD2)	Sourc	e: P906046-	01	Prepared: (06/12/19 1	Analyzed: 0	06/15/19 2			
Gasoline Range Organics (C6-C10)	48.0	20.0	mg/kg	50.0	ND	96.0	70-130	0.955	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.14		"	8.00		102	50-150			

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RPD

%REC



WPX (Carlsbad) Project Name: Ross Draw Unit #57

5315 Buena Vista DrProject Number:04108-0369Reported:Carlsbad NM, 88220Project Manager:Kris Rowe06/18/19 12:51

Reporting

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Spike

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1924041 - Anion Extraction EPA 30	0.0/9056A									
Blank (1924041-BLK1)				Prepared: (06/13/19 1	Analyzed: 0	6/13/19 2			
Chloride	ND	20.0	mg/kg							
LCS (1924041-BS1)				Prepared: (06/13/19 1	Analyzed: 0	6/13/19 2			
Chloride	274	20.0	mg/kg	250		109	90-110			
Matrix Spike (1924041-MS1)	Source	e: P906046-	01	Prepared: (06/13/19 1	Analyzed: 0	6/13/19 2			
Chloride	2860	20.0	mg/kg	250	2690	67.8	80-120			SPK1
Matrix Spike Dup (1924041-MSD1)	Source	e: P906046-	01	Prepared: (06/13/19 1	Analyzed: 0	6/14/19 0			
Chloride	3030	20.0	mg/kg	250	2690	137	80-120	5.90	20	SPK1

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.

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



WPX (Carlsbad) Project Name: Ross Draw Unit #57

5315 Buena Vista Dr Project Number: 04108-0369 Reported: 06/18/19 12:51 Carlsbad NM, 88220 Project Manager: Kris Rowe

Notes and Definitions

SPK1 The spike recovery is outside of quality control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

Methods marked with ** are non-accredited methods.

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5796 Highway 64, Farmington, NM 87401

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

Labadmin@envirotech-inc.com

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Client:	WPX C	arisbo	ad				Report Attention				L	ab U	se On	ly			T/	AT		EF	A Progra	m
Project:	ROSS D	raw U	nit	#57		Report due by:			Lab	WO#		,	Job i	Num	ber	, _	1D	3D	RCR	Α	CWA	SDWA
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Email:						Email:			8	8	8 /	, 82£	601	e 30	'						^	
Time Sampled	Date Sampled	Matri	ix c	No ontainers	Sample ID			Lab Number	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0							Ren	narks
	6/10/19	Soil	1	1	SP 81			1	X	X	X			X								
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Time	Date		No	S			Lab	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0						Rem	arks
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						ements are made. Hazardous samples will l			or dispo	osed of	r at the	client (expen	se. The rep	ort for	tne ana	lysis of	tne at	ove samples	is applicable
ionly to thos	e samples red	eived by the	aporatory v	VIED THIS COC. The	e nability of the	a laboratory is limited to the amount paid for	ron the report													



5796 US Highway 64, Farmington, NM 87401

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

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Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 6/12/2019

Job Number: 04108-0369

Work Order: P906047

Project Name/Location: Ross Draw Unit #57

	Draft			
Report Reviewed By:		Date:	6/18/19	
	Walter Hinchman, Laboratory Director			



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.

Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.

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Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

5796 Highway 64, Farmington, NM 87401

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

WPX (Carlsbad) Project Name: Ross Draw Unit #57

 5315 Buena Vista Dr
 Project Number:
 04108-0369
 Reported:

 Carlsbad NM, 88220
 Project Manager:
 Kris Rowe
 06/18/19 16:46

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP97	P906047-01A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP98	P906047-02A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP99	P906047-03A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP100	P906047-04A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP101	P906047-05A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP102	P906047-06A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP103	P906047-07A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SW1	P906047-08A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SW2	P906047-09A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SW3	P906047-10A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SW4	P906047-11A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SW5	P906047-12A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SW6	P906047-13A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SW7	P906047-14A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SW8	P906047-15A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SW9	P906047-16A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SW10	P906047-17A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SW11	P906047-18A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SW12	P906047-19A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.

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



Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 16:46

SP97 P906047-01 (Solid)

		1 7000	47-01 (50	nu)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50-	150	1924033	06/13/19	06/18/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924035	06/13/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924035	06/13/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		98.5 %	50-	200	1924035	06/13/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	50-	150	1924033	06/13/19	06/18/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	288	20.0	mg/kg	1	1924055	06/14/19	06/14/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 16:46

SP98

P906047-02 (Solid)

		1 7000	47-02 (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	1924033	06/13/19	06/18/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50-1	50	1924033	06/13/19	06/18/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924035	06/13/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924035	06/13/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		97.9 %	50-2	200	1924035	06/13/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	50-1	50	1924033	06/13/19	06/18/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	281	20.0	mg/kg	1	1924055	06/14/19	06/14/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe Reported:

06/18/19 16:46

SP99 P906047-03 (Solid)

		Reporting							
Analyte	Result	Limit	Units I	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg 1		1924033	06/13/19	06/18/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1		1924033	06/13/19	06/18/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg 1		1924033	06/13/19	06/18/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg 1		1924033	06/13/19	06/18/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg 1		1924033	06/13/19	06/18/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg 1		1924033	06/13/19	06/18/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50-150)	1924033	06/13/19	06/18/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/Ol	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1		1924035	06/13/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1		1924035	06/13/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		99.0 %	50-200)	1924035	06/13/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		1924033	06/13/19	06/18/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	50-150)	1924033	06/13/19	06/18/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	295	20.0	mg/kg 1		1924055	06/14/19	06/14/19	EPA 300.0/9056A	

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5796 Highway 64, Farmington, NM 87401

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



Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 16:46

SP100 P906047-04 (Solid)

		Reporting	17 04 (501	,					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.9 %	50-1	150	1924033	06/13/19	06/18/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924035	06/13/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924035	06/13/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		98.8 %	50-2	200	1924035	06/13/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	50-1	150	1924033	06/13/19	06/18/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	24.6	20.0	mg/kg	1	1924055	06/14/19	06/14/19	EPA 300.0/9056A	

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5796 Highway 64, Farmington, NM 87401

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

Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe Reported:

06/18/19 16:46

SP101 P906047-05 (Solid)

		1 7000	+1-03 (BU	iiu)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.8 %	50-	150	1924033	06/13/19	06/18/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OF	RO								
Diesel Range Organics (C10-C28)	146	25.0	mg/kg	1	1924035	06/13/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924035	06/13/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		96.6 %	50	200	1924035	06/13/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	50-	150	1924033	06/13/19	06/18/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	358	20.0	mg/kg	1	1924055	06/14/19	06/14/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 16:46

SP102 P906047-06 (Solid)

		Reporting	47 00 (50)						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		97.0 %	50-1	150	1924033	06/13/19	06/18/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	RO								
Diesel Range Organics (C10-C28)	44.5	25.0	mg/kg	1	1924035	06/13/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924035	06/13/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		97.2 %	50-2	200	1924035	06/13/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		104 %	50-1	150	1924033	06/13/19	06/18/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1800	20.0	mg/kg	1	1924055	06/14/19	06/14/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 16:46

SP103 P906047-07 (Solid)

		r9000	47-07 (Sona))					
		Reporting							
Analyte	Result	Limit	Units I	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg 1		1924033	06/13/19	06/18/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1		1924033	06/13/19	06/18/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg 1		1924033	06/13/19	06/18/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg 1		1924033	06/13/19	06/18/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg 1		1924033	06/13/19	06/18/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg 1		1924033	06/13/19	06/18/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		97.8 %	50-150)	1924033	06/13/19	06/18/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OF	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1		1924035	06/13/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1		1924035	06/13/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		102 %	50-200)	1924035	06/13/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		1924033	06/13/19	06/18/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	50-150)	1924033	06/13/19	06/18/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	46.3	20.0	mg/kg 1		1924055	06/14/19	06/14/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 16:46

SW1 P906047-08 (Solid)

		1 9000	47-00 (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	1924033	06/13/19	06/18/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.6 %	50-1	50	1924033	06/13/19	06/18/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	/ORO								
Diesel Range Organics (C10-C28)	50.2	25.0	mg/kg	1	1924035	06/13/19	06/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924035	06/13/19	06/15/19	EPA 8015D	
Surrogate: n-Nonane		101 %	50-2	200	1924035	06/13/19	06/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO	1								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	50-1	50	1924033	06/13/19	06/18/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	3210	20.0	mg/kg	1	1924055	06/14/19	06/14/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe Reported:

06/18/19 16:46

SW2 P906047-09 (Solid)

	_	Reporting	_	_	_			_	
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.0 %	50-1	50	1924033	06/13/19	06/18/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/O	ORO								
Diesel Range Organics (C10-C28)	71.4	25.0	mg/kg	1	1924035	06/13/19	06/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924035	06/13/19	06/16/19	EPA 8015D	
Surrogate: n-Nonane		99.8 %	50-2	200	1924035	06/13/19	06/16/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		104 %	50-1	50	1924033	06/13/19	06/18/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1720	20.0	mg/kg	1	1924055	06/14/19	06/14/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 16:46

SW3

P906047-10 (Solid)

		P9060	47-10 (Solid)					
		Reporting				-		
Analyte	Result	Limit	Units Dilu	ution Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021								
Benzene	ND	0.0250	mg/kg 1	1924033	06/13/19	06/18/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1	1924033	06/13/19	06/18/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg 1	1924033	06/13/19	06/18/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg 1	1924033	06/13/19	06/18/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg 1	1924033	06/13/19	06/18/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg 1	1924033	06/13/19	06/18/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.0 %	50-150	1924033	06/13/19	06/18/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	O/ORO							
Diesel Range Organics (C10-C28)	119	25.0	mg/kg 1	1924035	06/13/19	06/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924035	06/13/19	06/16/19	EPA 8015D	
Surrogate: n-Nonane		98.0 %	50-200	1924035	06/13/19	06/16/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO	0							
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1924033	06/13/19	06/18/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	50-150	1924033	06/13/19	06/18/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	873	20.0	mg/kg 1	1924055	06/14/19	06/14/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 16:46

SW4 P906047-11 (Solid)

		17000	47-11 (SU	iiu)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.3 %	50-	-150	1924033	06/13/19	06/18/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	.0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924035	06/13/19	06/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924035	06/13/19	06/16/19	EPA 8015D	
Surrogate: n-Nonane		98.2 %	50-	-200	1924035	06/13/19	06/16/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924033	06/13/19	06/18/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	50-	-150	1924033	06/13/19	06/18/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1540	20.0	mg/kg	1	1924055	06/14/19	06/14/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 16:46

SW5

P906047-12 (Solid)

			47 12 (SUI	<i>(u)</i>					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015 - DF	RO/ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924035	06/13/19	06/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924035	06/13/19	06/16/19	EPA 8015D	
Surrogate: n-Nonane		101 %	50-2	000	1924035	06/13/19	06/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	925	20.0	mg/kg	1	1924055	06/14/19	06/14/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe Reported:

06/18/19 16:46

SW6 P906047-13 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015 - DE	RO/ORO								
Diesel Range Organics (C10-C28)	39.0	25.0	mg/kg	1	1924035	06/13/19	06/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924035	06/13/19	06/16/19	EPA 8015D	
Surrogate: n-Nonane		96.7 %	50-20	00	1924035	06/13/19	06/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	447	20.0	mg/kg	1	1924055	06/14/19	06/14/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe Reported:

06/18/19 16:46

SW7 P906047-14 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015 - DI	RO/ORO								
Diesel Range Organics (C10-C28)	48.8	25.0	mg/kg	1	1924035	06/13/19	06/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924035	06/13/19	06/16/19	EPA 8015D	
Surrogate: n-Nonane		98.1 %	50-	200	1924035	06/13/19	06/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	826	20.0	mg/kg	1	1924055	06/14/19	06/14/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe Reported:

Rowe 06/18/19 16:46

SW8

P906047-15 (Solid)

		Reporting		Í					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015 - DR	O/ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924035	06/13/19	06/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924035	06/13/19	06/16/19	EPA 8015D	
Surrogate: n-Nonane		98.4 %	50-2	200	1924035	06/13/19	06/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	397	20.0	mg/kg	1	1924055	06/14/19	06/14/19	EPA 300.0/9056A	

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5796 Highway 64, Farmington, NM 87401

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



Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 16:46

SW9

P906047-16 (Solid)

		P9000	47-10 (Sona)					
		Reporting						
Analyte	Result	Limit	Units D	ilution Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015 - DI	RO/ORO							
Diesel Range Organics (C10-C28)	196	25.0	mg/kg 1	1924035	06/13/19	06/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	54.8	50.0	mg/kg 1	1924035	06/13/19	06/16/19	EPA 8015D	
Surrogate: n-Nonane		97.0 %	50-200	1924035	06/13/19	06/16/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	3880	20.0	mg/kg 1	1924055	06/14/19	06/15/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe Reported:

06/18/19 16:46

SW10 P906047-17 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015 - DI	RO/ORO								
Diesel Range Organics (C10-C28)	37.8	25.0	mg/kg	1	1924035	06/13/19	06/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924035	06/13/19	06/16/19	EPA 8015D	
Surrogate: n-Nonane		98.3 %	50-2	000	1924035	06/13/19	06/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	313	20.0	mg/kg	1	1924055	06/14/19	06/15/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0369 Kris Rowe **Reported:** 06/18/19 16:46

Page 191 of 282

100/10/19

SW11

P906047-18 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015 - DR	O/ORO								
Diesel Range Organics (C10-C28)	248	25.0	mg/kg	1	1924035	06/13/19	06/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	74.7	50.0	mg/kg	1	1924035	06/13/19	06/16/19	EPA 8015D	
Surrogate: n-Nonane		106 %	50	200	1924035	06/13/19	06/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	4760	20.0	mg/kg	1	1924055	06/14/19	06/15/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: 04108-0369 Project Manager: Kris Rowe **Reported:** 06/18/19 16:46

SW12

P906047-19 (Solid)

		P9060	47-19 (Sona)					
		Reporting						
Analyte	Result	Limit	Units Diluti	on Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015 - DI	RO/ORO							
Diesel Range Organics (C10-C28)	61.2	25.0	mg/kg 1	1924035	06/13/19	06/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1924035	06/13/19	06/16/19	EPA 8015D	
Surrogate: n-Nonane		103 %	50-200	1924035	06/13/19	06/16/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	1470	20.0	mg/kg 1	1924055	06/14/19	06/15/19	EPA 300.0/9056A	

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5315 Buena Vista Dr Project Number: 04108-0369 Reported: 06/18/19 16:46 Carlsbad NM, 88220 Project Manager: Kris Rowe

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyta	D coult	Reporting	Unita	Spike	Source	%REC	%REC	RPD	RPD Limit	Not
Analyte	Result	Limit	Units	Level	Result	%KEC	Limits	KPD	Limit	Notes
Batch 1924033 - Purge and Trap EPA 5030A										
Blank (1924033-BLK1)				Prepared: (06/13/19 0 A	Analyzed: 0	06/18/19 0			
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.01		"	8.00		100	50-150			
LCS (1924033-BS1)				Prepared: (06/13/19 0 A	Analyzed: 0	06/18/19 0			
Benzene	4.32	0.0250	mg/kg	5.00		86.3	70-130			
Toluene	4.76	0.0250	"	5.00		95.1	70-130			
Ethylbenzene	4.76	0.0250	"	5.00		95.2	70-130			
p,m-Xylene	9.80	0.0500	"	10.0		98.0	70-130			
o-Xylene	4.78	0.0250	"	5.00		95.6	70-130			
Total Xylenes	14.6	0.0250	"	15.0		97.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.09		"	8.00		101	50-150			
Matrix Spike (1924033-MS1)	Sou	rce: P906047-	01	Prepared: (06/13/19 0 A	Analyzed: 0	06/18/19 0			
Benzene	4.06	0.0250	mg/kg	5.00	ND	81.2	54.3-133			
Toluene	4.47	0.0250	"	5.00	ND	89.3	61.4-130			
Ethylbenzene	4.46	0.0250	"	5.00	ND	89.2	61.4-133			
p,m-Xylene	9.18	0.0500	"	10.0	ND	91.8	63.3-131			
o-Xylene	4.48	0.0250	"	5.00	ND	89.6	63.3-131			
Total Xylenes	13.7	0.0250	"	15.0	ND	91.0	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8.12		"	8.00		101	50-150			
Matrix Spike Dup (1924033-MSD1)	Sou	rce: P906047-	01	Prepared: (06/13/19 0 A	Analyzed: 0	06/18/19 0			
Benzene	3.87	0.0250	mg/kg	5.00	ND	77.4	54.3-133	4.85	20	
Toluene	4.27	0.0250	"	5.00	ND	85.3	61.4-130	4.59	20	
Ethylbenzene	4.27	0.0250	"	5.00	ND	85.5	61.4-133	4.23	20	
p,m-Xylene	8.81	0.0500	"	10.0	ND	88.1	63.3-131	4.05	20	
o-Xylene	4.30	0.0250	"	5.00	ND	85.9	63.3-131	4.12	20	
Total Xylenes	13.1	0.0250	"	15.0	ND	87.4	63.3-131	4.08	20	
Surrogate: 4-Bromochlorobenzene-PID	8.11		,,	8.00	•	101	50-150			
Surroguie. 4-Dromocniorobenzene-PID	ð. 11			8.00		101	30-130			

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5315 Buena Vista Dr Project Number: 04108-0369 Reported:
Carlsbad NM, 88220 Project Manager: Kris Rowe 06/18/19 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 1924035 - DRO Extraction EPA 3570										
Blank (1924035-BLK1)				Prepared: (06/13/19 1 A	Analyzed: 0	6/17/19 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	49.0		"	50.0		98.0	50-200			
LCS (1924035-BS1)				Prepared: (06/13/19 1 A	Analyzed: 0	6/17/19 1			
Diesel Range Organics (C10-C28)	453	25.0	mg/kg	500		90.6	38-132			
Surrogate: n-Nonane	50.2		"	50.0		100	50-200			
Matrix Spike (1924035-MS1)	Sour	rce: P906047-	01	Prepared: (06/13/19 1 A	Analyzed: 0	6/17/19 2			
Diesel Range Organics (C10-C28)	310	25.0	mg/kg	500	ND	62.0	38-132			
Surrogate: n-Nonane	42.9		"	50.0		85.7	50-200			
Matrix Spike Dup (1924035-MSD1)	Sour	rce: P906047-	01	Prepared: (06/13/19 1 A	Analyzed: 0	6/17/19 2			
Diesel Range Organics (C10-C28)	264	25.0	mg/kg	500	ND	52.8	38-132	16.0	20	
Surrogate: n-Nonane	49.5		"	50.0		99.0	50-200			

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5315 Buena Vista DrProject Number:04108-0369Reported:Carlsbad NM, 88220Project Manager:Kris Rowe06/18/19 16:46

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 1924033 - Purge and Trap EPA 5030A										
Blank (1924033-BLK1)				Prepared:	06/13/19 0	Analyzed: 0	6/18/19 0			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.21		"	8.00		103	50-150			
LCS (1924033-BS2)				Prepared:	06/13/19 0	Analyzed: 0	6/18/19 0			
Gasoline Range Organics (C6-C10)	48.2	20.0	mg/kg	50.0		96.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.31		"	8.00		104	50-150			
Matrix Spike (1924033-MS2)	Sour	ce: P906047-	01	Prepared:	06/13/19 0	Analyzed: 0	6/18/19 0			
Gasoline Range Organics (C6-C10)	48.9	20.0	mg/kg	50.0	ND	97.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.20		"	8.00		103	50-150			
Matrix Spike Dup (1924033-MSD2)	Sour	ce: P906047-	01	Prepared:	06/13/19 0	Analyzed: 0	6/18/19 0			
Gasoline Range Organics (C6-C10)	47.7	20.0	mg/kg	50.0	ND	95.5	70-130	2.51	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.25		"	8.00		103	50-150			

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5315 Buena Vista DrProject Number:04108-0369Reported:Carlsbad NM, 88220Project Manager:Kris Rowe06/18/19 16:46

Reporting

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Spike

Source

%REC

RPD

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1924055 - Anion Extraction EPA 30	00.0/9056A									
Blank (1924055-BLK1)				Prepared &	Analyzed:	06/14/19 1				
Chloride	ND	20.0	mg/kg							
LCS (1924055-BS1)				Prepared &	Analyzed:	06/14/19 1				
Chloride	255	20.0	mg/kg	250		102	90-110			
Matrix Spike (1924055-MS1)	Source	: P906047-	01	Prepared &	Analyzed:	06/14/19 1				
Chloride	511	20.0	mg/kg	250	288	89.1	80-120			
Matrix Spike Dup (1924055-MSD1)	Source	: P906047-	01	Prepared &	Analyzed:	06/14/19 1				
Chloride	499	20.0	mg/kg	250	288	84.3	80-120	2.40	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.

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



5315 Buena Vista Dr Project Number: 04108-0369 Reported:
Carlsbad NM, 88220 Project Manager: Kris Rowe 06/18/19 16:46

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

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

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Labadmin@envirotech-inc.com

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Client: Report Attention					Lab Use Only TAT EPA Progr					A Progra	m										
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				his sample. I am awa		ring with or intentionally mislabelling the sample lo									preserv	ation mu	ist be rec	eived on	ice the	day they are sam	pled or received
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Sample Mat	rix; S - Soil. S c	d - Solid. Se -	-	queous, 0 - Other	- · · · ·	1	Containe									r glas:	s, v - \	VOA		2.5	
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be re												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.																					



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Client: UPX Carlshad Report Attention				1	Т		Li	ab Us	e On	V		Т	AT	E	PA Progra	m				
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Time Sampled	Date Sampled	Matrix	No Containers	Sample ID				Lab Numbe	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0					Rem	arks
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				this sample. I am awa		ith or intentionally m	islabelling the sar	nple location, date or					packed I	ice at an	avg temp ab	ove 0 but	less than	6 °C on subsequ	e day they are sam ent days.	pled or received
	ed by: (Sign		in b	/11/19 2	1007 Pe	eived by: (Signa	utuva	Date	19	Time	00)N	Rece	ived o	n ice:	C	ab Us	e Only		
Relinquish	ed by: (Sign	ature)	Date 6	Time	J. OO Re	ceived by: (Signa	m	Date VIII	119	Time	0.0	0	T1 AVG	Temp	°c_L	<u>T2</u>			<u>T3</u>	
Sample Mat	rix: S - Soil, S	d - Solid, Sg -	Sludge, A - A	queous, O - Other	(/		// X	Contain	er Typ	e: g -	glass,	p - p	oly/pla	astic, a	g - amb	er gla	SS, V -	VOA		
Note: Samp	les are discar	ded 30 days	after results	are reported unless	other arrangemen	nts are made. Haz oratory is limited t	ardous sample o the amount p	will be returned to aid for on the repor	client (or disp	osed o	f at the	client e	xpense	The rep	ort for	the ana	ysis of the a	bove samples	is applicable
and the second																				



Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 7/13/2019 Job Number: 04108-0639 Work Order: P907036

Project Name/Location: Ross Draw Unit #57

Report Reviewed By:	Walter Winder	Date:	7/17/19	
-				

Walter Hinchman, Laboratory Director



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5315 Buena Vista DrProject Number:04108-0639Reported:Carlsbad NM, 88220Project Manager:Kris Rowe07/17/19 14:32

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1	P907036-01A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP2	P907036-02A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP3	P907036-03A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP4	P907036-04A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP5	P907036-05A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP6	P907036-06A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP9	P907036-07A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP10	P907036-08A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP11	P907036-09A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP12	P907036-10A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP20	P907036-11A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP31	P907036-12A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP34	P907036-13A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP35	P907036-14A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP38	P907036-15A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP41	P907036-16A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP42	P907036-17A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP55	P907036-18A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP57	P907036-19A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP60	P907036-20A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe Reported:

07/17/19 14:32

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SP1

P907036-01 (Solid)

		1 7070	30-01 (St	muj					
		Reporting							
									ľ
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
*		• • • •			1000001	0=4.54.0	0=4=40		
Chloride	563	20.0	mg/kg	1	1929001	07/15/19	07/15/19	EPA	
								300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe

Reported: 07/17/19 14:32

SP2

P907036-02 (Solid)

		P90/03	00-02 (50	na)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	201	20.0	mg/kg	1	1929001	07/15/19	07/15/19	EPA 300 0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe Reported:

07/17/19 14:32

SP3

P907036-03 (Solid)

		1 70 / 0	30-03 (BI	muj					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	296	20.0	mg/kg	1	1929001	07/15/19	07/15/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe **Reported:** 07/17/19 14:32

Page 205 of 282

SP4

P907036-04 (Solid)

		1 70 / 05)C) F U-UC	muj					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	466	20.0	mg/kg	1	1929001	07/15/19	07/15/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number:

04108-0639 Kris Rowe Reported:

Page 206 of 282

Project Manager:

07/17/19 14:32

SP5

P907036-05 (Solid)

		P90/0	30-US (SC	ma)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
*		20.0			1020001	05/15/10	05/15/10	ED4	
Chloride	229	20.0	mg/kg	I	1929001	07/15/19	07/15/19	EPA	
								300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe

Reported:

07/17/19 14:32

SP6 P907036-06 (Solid)

		Reporting	`	,					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	123	20.0	mg/kg	1	1929001	07/15/19	07/15/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe

Reported:

07/17/19 14:32

SP9

P907036-07 (Solid)

		F 90 / U	30-07 (30	mu)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	151	20.0	mg/kg	1	1929001	07/15/19	07/15/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

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

Reported:

Manager: Kris Rowe

07/17/19 14:32

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SP10

P907036-08 (Solid)

		F 90 / U	30-06 (30	mu)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	343	20.0	mg/kg	1	1929001	07/15/19	07/15/19	EPA 300.0/9056A	_

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe

Reported: 07/17/19 14:32

SP11

		P9070.	36-09 (Sc	olid)					
		Reporting				•	•		·
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	260	20.0	mg/kg	1	1929001	07/15/19	07/15/19	EPA 300.0/9056A	<u> </u>

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe Reported:

07/17/19 14:32

SP12

P907036-10 (Solid)

		P90/0	30-10 (3 0	ma)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	151	20.0	mg/kg	1	1929001	07/15/19	07/15/19	EPA 300 0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe

Reported: 07/17/19 14:32

SP20

		P90703	36-11 (Sa	olia)					
		Reporting	•				•		
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	75.2	20.0	mg/kg	1	1929001	07/15/19	07/15/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number:

04108-0639

Reported:

Project Manager: Kris Rowe

07/17/19 14:32

SP31

P907036-12 (Solid)

			00 12 (50						
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	200	20.0	mg/kg	1	1929001	07/15/19	07/15/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe

Reported: 07/17/19 14:32

SP34

P90/036-13 (Solid)										
		Reporting	•				•	•	·	
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Anions by 300.0/9056A										
Chloride	40.2	20.0	mg/kg	1	1929001	07/15/19	07/15/19	EPA 300.0/9056A		

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe Reported:

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07/17/19 14:32

SP35

P907036-14 (Solid)

		P90/0	30-14 (50	ma)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	131	20.0	mg/kg	1	1929001	07/15/19	07/15/19	EPA 300.0/9056A	_

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe Reported:

07/17/19 14:32

SP38

P907036-15 (Solid)

190/030-13 (Solid)									
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	104	20.0	mg/kg	1	1929001	07/15/19	07/15/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe

Reported:

07/17/19 14:32

SP41

P907036-16 (Solid)

		F 90 / 0.	30-10 (30	mu)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	111	20.0	mg/kg	1	1929001	07/15/19	07/15/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe Reported:

07/17/19 14:32

SP42

P907036-17 (Solid)

		F 90 / 0.	30-17 (30	mu)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	107	20.0	mg/kg	1	1929001	07/15/19	07/15/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe **Reported:** 07/17/19 14:32

SP55

P907036-18 (Solid)

		F 90 / U.	20-19 (20	mu)					
		Reporting		•	•	•			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	48.6	20.0	mg/kg	1	1929001	07/15/19	07/15/19	EPA 300.0/9056A	_

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe Reported:

ojeet manager.

07/17/19 14:32

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SP57

|--|

		1 70 / 05	10-17 (BI	Jiiu)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	177	20.0	mg/kg	1	1929001	07/15/19	07/15/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe Reported:

07/17/19 14:32

SP60

P907036-20 (Solid)

		1 70 / 00	30-20 (St	muj					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	40.6	20.0	mg/kg	1	1929001	07/15/19	07/15/19	EPA 300.0/9056A	

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RPD

%REC



WPX (Carlsbad) Project Name: Ross Draw Unit #57

5315 Buena Vista Dr Project Number: 04108-0639 Reported:
Carlsbad NM, 88220 Project Manager: Kris Rowe 07/17/19 14:32

Reporting

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Spike

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes		
Batch 1929001 - Anion Extraction EPA 300	.0/9056A											
Blank (1929001-BLK1)				Prepared: (07/15/19 0 A	Analyzed: 0	7/15/19 1					
Chloride	ND	20.0	mg/kg									
LCS (1929001-BS1)				Prepared: 07/15/19 0 Analyzed: 07/15/19 1								
Chloride	254	20.0	mg/kg	250		102	90-110					
Matrix Spike (1929001-MS1)	Source	e: P907036-	01	Prepared: (07/15/19 0 A	Analyzed: 0	7/15/19 1					
Chloride	785	20.0	mg/kg	250	563	89.0	80-120					
Matrix Spike Dup (1929001-MSD1)	Source	e: P907036-	01	Prepared: (07/15/19 0 A	Analyzed: 0	7/15/19 1					
Chloride	742	20.0	mg/kg	250	563	71.9	80-120	5.59	20	SPK1		

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.

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



WPX (Carlsbad) Project Name: Ross Draw Unit #57

5315 Buena Vista Dr Project Number: 04108-0639 Reported:
Carlsbad NM, 88220 Project Manager: Kris Rowe 07/17/19 14:32

Notes and Definitions

SPK1 The spike recovery is outside of quality control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

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

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ita	ite			
0	UT	ΑZ		1
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			8 PM	

Client: WPX Carlsbad Project: Ross Draw Unit #57 Project Manager: Kris Rowe Address: on file Report Attention Report due by: On file Attention: Address: Address:							Attention	Lab Use Only TAT EPA Progra					m									
Project:	R 059	; Draw	Unit !	157	R	eport due by	: On	fic							RCF	RA	CWA	SDWA				
Project N	lanager:	Kri	Rowe	2	A	ttention:				P 9	07	03	6	041	08-	0634						
Address:		0,	n file		A	ddress:		V C						Analy	sis an	d Meth	od				Sta	ite
City, State	e, Zip		1			ity, State, Zip)			115	8015						\top				NM CO	UT AZ
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Time	Date	Matrix	No	Sample ID			11/192	3200	Lab	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by	tals	Chloride 300.0						Por	narks
Sampled	Sampled	IVIGUIA	Containers	Sattible ID					Number	DR(GR(BTE	00	Metals 6010	S F						Ken	laiks
11:30mm	7/12/2019	Soil	1	/	SP	50000		SATTINASITE-300	1						X							
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					SPO	1			7													
					SPio	45			8													
					SPII				9													
	(SP12				10													
Additiona	al Instruc	tions:				0 10 to 10 t		o committee and			57.55					-					ille	
				his sample. I am		pering with or intent	ionally mislab	pelling the sample	location, date or					11		thermal pre					lay they are sam it days.	pled or received
Relinquishe	d by: (Signa	ture)	Date 7/1			Received by			W 7/121	9	Time 2.	<u>5</u> 0		Rece	ived	on ice:		Lab Us	e Onl	У		
Relinguishe	d by: (Signa	eous	Date 7		ime / 10:154		: (Signatur		Date		Time					p °C					T3	
1 17			7	queous, 0 - Oth					Container	Туре	: g - g	lass,							VOA			
Note: Sample	es are discard	led 30 days a	after results a	re reported un	less other arra	ngements are ma	de. Hazardo	ous samples wil												he ab	ove samples	is applicable
only to those	samples rec	eived by the	laboratory wi	ith this COC. T	he liability of	he laboratory is li	imited to the	e amount naid f	or on the report													

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labadmin@envirotech-inc.com

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Client: WPX Carlshad Report Attention											A Progra											
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	/lanager:	K	\$ 120	we_		ention:			Pq	<u>070</u>	36)	041	08	-0E	51		X				
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City, Stat	e, Zip		$\overline{}$			State, Zip			3015	015										-	NM CO	UT AZ
<u>Phone:</u>					Pho			8	by 8	by 8	021	09	10	90.0							\checkmark	
Email:	Ι.				Ema	il:		1	ORO	DRO	by 81	y 82	s 60	de 3							$\Delta \bot$	
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID				Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0							Ren	narks
11:45	7/12/2019	Soil	(SP2	O		11			-			X								
1	1	•	1		SP3	1	19.0	12														
					SP3		-279	13														
					SP3			14														
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					SP41			16						\prod								
					SP42	_		17														
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			1		SP60			20						1								
Addition	al Instruc	tions:		•				,														
			nav be ground	for legal action. Sa	mpled by:	ng with or intentionally mi	wh						Samples packed in									npled or received
	ed by: (Sign	iture) /	Date	(2/2019)	1:40Pm	Received by: (Signa	iture) Fival	Date / 2	19	$\mathcal{Z}^{\text{Time}}$	50)	Rece	ived	on ic	e:	La	b Use	e Onl	У		
Relinquished by: (Signature) Date Time Received by: (Signature) Time Received by: (Signature)							iture)	Date	* *	Time	-		T1 AVG	Tem	n°C	- 4	T2			-	T3	
Sample Matrix: S - Soil, Sd - Solid, Sg Sludge, A - Aqueous, O - Other						Date Time T1 AVG Temp °C Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																
Note: Samp	les are discar	ded 30 days a	fter results a	re reported unles	s other arrange	ements are made. Haz		e returned to o												he ab	ove samples	is applicable
orny to thos	e samples ret	cived by the	IGOOTALOTY W	nar tilis COC. Till	- navinty of the	aboratory is infinted to	o the amount paid for	on the report.	- 20/0													





Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 7/13/2019 Job Number: 04108-0639 Work Order: P907037

Project Name/Location: Ross Draw Unit #57

Report Reviewed By:	Walter Hankson	Date:	7/17/19	
		_		

Walter Hinchman, Laboratory Director



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5796 Highway 64, Farmington, NM 87401

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

WPX (Carlsbad) Project Name: Ross Draw Unit #57

5315 Buena Vista Dr Project Number: 04108-0639 Reported:
Carlsbad NM, 88220 Project Manager: Kris Rowe 07/17/19 14:45

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP61	P907037-01A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP64	P907037-02A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP66	P907037-03A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP69	P907037-04A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP70	P907037-05A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP76	P907037-06A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP78	P907037-07A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP79	P907037-08A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP81	P907037-09A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP87	P907037-10A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP91	P907037-11A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP93	P907037-12A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP95	P907037-13A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP102	P907037-14A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SW1	P907037-15A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SW2	P907037-16A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SW3	P907037-17A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SW4	P907037-18A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SW5	P907037-19A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SW7	P907037-20A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SW9	P907037-21A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SW11	P907037-22A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SW12	P907037-23A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP101	P907037-24A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.

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Project Name:

Ross Draw Unit #57

04108-0639

Kris Rowe

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: Reported:

07/17/19 14:45

SP61 P907037-01 (Solid)

		1 70 / 00	37-01 (St	muj					
		Reporting		•		•			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	34.8	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A	

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24 Hour Emergency Response Phone (800) 362-1879

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe

Reported:

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07/17/19 14:45

SP64

P907037-02 (Solid)

		P90/0	37-02 (50	ona)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	156	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300 0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe Reported:

07/17/19 14:45

SP66 P907037-03 (Solid)

		1 70 / 05	77-03 (St	muj					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	79.3	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe Reported:

07/17/19 14:45

SP69

P907037-04 (Solid)

		F 90 / U	37-04 (30	mu)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
			_						
Chloride	118	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA	
								300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe

Reported:

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07/17/19 14:45

SP70

		P9070.	37-05 (Sc	olid)					
		Reporting					•		
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	99.5	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe Reported:

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SP76

P907037-06 (Solid)

		P90/03/	/-00 (Sona)					
		Reporting						
Analyte	Result	Limit U	Units D	ilution Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A								
Chloride	192	20.0	mg/kg 1	192900:	5 07/15/19	07/16/19	EPA	
							300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe **Reported:** 07/17/19 14:45

SP78

P907037-07 (Solid)

		P90/03	57-07 (50	ma)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe

Reported:

07/17/19 14:45

SP79

P907037-08 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	99.1	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A	_

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe

Reported:

07/17/19 14:45

SP81

		P90703	37-09 (So	olid)					
		Reporting					•		
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	26.6	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number:

04108-0639

Reported:

Project Manager: Kris Rowe 07/17/19 14:45

SP87

P907037-10 (Solid)

		F 90 / 03	77-10 (30	mu)					
		Reporting	•		•	•			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	69.7	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

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

Reported:

Kris Rowe

07/17/19 14:45

SP91

P907037-11 (Solid)

		1 70 / 03	7-11 (301	iu)					
		Reporting							
Analyte	Result	Limit 1	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	78.7	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe Reported:

07/17/19 14:45

SP93 P907037-12 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015 - DRO/ORO)								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1929003	07/15/19	07/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1929003	07/15/19	07/16/19	EPA 8015D	
Surrogate: n-Nonane		104 %	50	-200	1929003	07/15/19	07/16/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1929002	07/15/19	07/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	50	-150	1929002	07/15/19	07/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	149	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe Reported:

07/17/19 14:45

SP95 P907037-13 (Solid)

		Reporting	`						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015 - DRO/ORO)								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1929003	07/15/19	07/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1929003	07/15/19	07/16/19	EPA 8015D	
Surrogate: n-Nonane		100 %	50	-200	1929003	07/15/19	07/16/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1929002	07/15/19	07/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	50	-150	1929002	07/15/19	07/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	133	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe **Reported:** 07/17/19 14:45

SP102

P907037-14 (Solid)

P90/03/-14 (Solid)										
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Anions by 300.0/9056A										
Chloride	146	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A		

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe Reported:

X/1

07/17/19 14:45

SW1

P907037-15 (Solid)

		F 90 / 0.	37-13 (30	Jiiu)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	23.4	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

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

Reported:

Page 243 of 282

07/17/19 14:45 Kris Rowe

SW2

	P90/03/-16 (Solid)									
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Anions by 300.0/9056A										
Chloride	208	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A		

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe Reported:

07/17/19 14:45

SW3 P907037-17 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1929003	07/15/19	07/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1929003	07/15/19	07/16/19	EPA 8015D	
Surrogate: n-Nonane		106 %	50-	-200	1929003	07/15/19	07/16/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1929002	07/15/19	07/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	50-	-150	1929002	07/15/19	07/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	364	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

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

Reported:

nager: Kris Rowe 07/17/19 14:45

SW4

P907037-18 (Solid)

		P90/03	7-18 (50)	ia)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	213	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe Reported:

07/17/19 14:45

SW5

P907037-19 (Solid)

		P90/03	7-19 (Sona	1)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	126	20.0	mg/kg 1		1929005	07/15/19	07/16/19	EPA	
	120		0 0					300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number:

04108-0639 Kris Rowe Reported:

Project Manager:

07/17/19 14:45

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SW7 P907037-20 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	118	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe Reported:

07/17/19 14:45

SW9 P907037-21 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015 - DRO/O	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1929003	07/15/19	07/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1929003	07/15/19	07/16/19	EPA 8015D	
Surrogate: n-Nonane		106 %	50-	-200	1929003	07/15/19	07/16/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1929002	07/15/19	07/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	50-	-150	1929002	07/15/19	07/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	275	20.0	mg/kg	1	1929006	07/15/19	07/16/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe **Reported:** 07/17/19 14:45

SW11 P907037-22 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015 - DRO/ORO)								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1929003	07/15/19	07/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1929003	07/15/19	07/16/19	EPA 8015D	
Surrogate: n-Nonane		103 %	50-	-200	1929003	07/15/19	07/16/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1929002	07/15/19	07/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	50-	-150	1929002	07/15/19	07/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	219	20.0	mg/kg	1	1929006	07/15/19	07/16/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe Reported:

07/17/19 14:45

SW12 P907037-23 (Solid)

1707007 20 (50114)										
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Anions by 300.0/9056A										
Chloride	95.2	20.0	mg/kg	1	1929006	07/15/19	07/16/19	EPA 300.0/9056A		

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe Reported:

07/17/19 14:45

SP101 P907037-24 (Solid)

		Reporting	· · ·						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1929003	07/15/19	07/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1929003	07/15/19	07/16/19	EPA 8015D	
Surrogate: n-Nonane		103 %	50-	-200	1929003	07/15/19	07/16/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1929002	07/15/19	07/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	50-	-150	1929002	07/15/19	07/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	81.2	20.0	mg/kg	1	1929006	07/15/19	07/16/19	EPA 300.0/9056A	

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5796 Highway 64, Farmington, NM 87401

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

WPX (Carlsbad) Project Name: Ross Draw Unit #57

 5315 Buena Vista Dr
 Project Number:
 04108-0639
 Reported:

 Carlsbad NM, 88220
 Project Manager:
 Kris Rowe
 07/17/19 14:45

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source	AVE EG	%REC	222	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1929003 - DRO Extraction EPA 3570										
Blank (1929003-BLK1)	Prepared: 07/15/19 1 Analyzed: 07/16/19 1									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	50.2		"	50.0		100	50-200			
LCS (1929003-BS1)	Prepared: 07/15/19 1 Analyzed: 07/16/19 1									
Diesel Range Organics (C10-C28)	499	25.0	mg/kg	500		99.7	38-132			
Surrogate: n-Nonane	50.0		"	50.0		100	50-200			
Matrix Spike (1929003-MS1)	Source: P907037-12			Prepared: (07/15/19 1 A	Analyzed: 0				
Diesel Range Organics (C10-C28)	487	25.0	mg/kg	500	ND	97.4	38-132			
Surrogate: n-Nonane	52.3		"	50.0		105	50-200			
Matrix Spike Dup (1929003-MSD1)	Source: P907037-12			Prepared: (07/15/19 1 A	Analyzed: 0				
Diesel Range Organics (C10-C28)	474	25.0	mg/kg	500	ND	94.8	38-132	2.75	20	
Surrogate: n-Nonane	50.4		"	50.0		101	50-200			

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WPX (Carlsbad) Project Name: Ross Draw Unit #57

5315 Buena Vista DrProject Number:04108-0639Reported:Carlsbad NM, 88220Project Manager:Kris Rowe07/17/19 14:45

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 1929002 - Purge and Trap EPA 5030A										
Blank (1929002-BLK1)				Prepared:	07/15/19 0	Analyzed: 0	7/16/19 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.27		"	8.00		103	50-150			
LCS (1929002-BS2)				Prepared:	07/15/19 0	Analyzed: 0	7/16/19 1			
Gasoline Range Organics (C6-C10)	57.1	20.0	mg/kg	50.0		114	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.30		"	8.00		104	50-150			
Matrix Spike (1929002-MS2)	Sour	rce: P907037-	12	Prepared:	07/15/19 0	Analyzed: 0	7/16/19 1			
Gasoline Range Organics (C6-C10)	55.9	20.0	mg/kg	50.0	ND	112	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.26		"	8.00		103	50-150			
Matrix Spike Dup (1929002-MSD2)	Sour	rce: P907037-	12	Prepared:	07/15/19 0	Analyzed: 0	7/16/19 1			
Gasoline Range Organics (C6-C10)	54.7	20.0	mg/kg	50.0	ND	109	70-130	2.27	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.18		"	8.00		102	50-150			

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

WPX (Carlsbad) Project Name: Ross Draw Unit #57

5315 Buena Vista Dr Project Number: 04108-0639 **Reported:**Carlsbad NM, 88220 Project Manager: Kris Rowe 07/17/19 14:45

Reporting

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Spike

%REC

RPD

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1929005 - Anion Extraction EPA 300	.0/9056A									
Blank (1929005-BLK1)				Prepared: (07/15/19 1	Analyzed: 0	7/16/19 0			
Chloride	ND	20.0	mg/kg							
LCS (1929005-BS1)				Prepared: (07/15/19 1 2	Analyzed: 0	7/16/19 0			
Chloride	253	20.0	mg/kg	250		101	90-110			
Matrix Spike (1929005-MS1)	Source	e: P907037-	01	Prepared: (07/15/19 1 2	Analyzed: 0	7/16/19 0			
Chloride	289	20.0	mg/kg	250	34.8	102	80-120			
Matrix Spike Dup (1929005-MSD1)	Source	e: P907037-	01	Prepared: (07/15/19 1 /	Analyzed: 0	7/16/19 0			
Chloride	282	20.0	mg/kg	250	34.8	98.8	80-120	2.64	20	

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RPD

%REC



WPX (Carlsbad) Project Name: Ross Draw Unit #57

5315 Buena Vista Dr Project Number: 04108-0639 Reported: Carlsbad NM, 88220 Project Manager: Kris Rowe 07/17/19 14:45

Reporting

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Spike

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1929006 - Anion Extraction EPA 30	0.0/9056A									
Blank (1929006-BLK1)				Prepared: (07/15/19 1 A	Analyzed: 0	7/16/19 1			
Chloride	ND	20.0	mg/kg							
LCS (1929006-BS1)				Prepared: (07/15/19 1 A	Analyzed: 0	7/16/19 1			
Chloride	257	20.0	mg/kg	250		103	90-110			
Matrix Spike (1929006-MS1)	Source	: P907037-	21	Prepared: (07/15/19 1 A	Analyzed: 0	7/16/19 1			
Chloride	561	20.0	mg/kg	250	275	115	80-120			
Matrix Spike Dup (1929006-MSD1)	Source	: P907037-	21	Prepared: (07/15/19 1 A	Analyzed: 0	7/16/19 1			
Chloride	551	20.0	mg/kg	250	275	111	80-120	1.73	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.

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WPX (Carlsbad) Project Name: Ross Draw Unit #57

5315 Buena Vista Dr Project Number: 04108-0639 Reported:
Carlsbad NM, 88220 Project Manager: Kris Rowe 07/17/19 14:45

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

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

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Client: WPX Carlsbad	Report Attention			La	b Use	e Only	,		TAT	EPA Program			
Project: ROSS Draw Uni+#57	eport due by: on file	Lab V	NO#			Job N	umber		1D 3D	RCRA	CWA	SDWA	
	ttention:	P9	070	37		041	08-0	654	X				
	ddress:			~ !	1	Analys	is and M	ethod			Sta		
	ty, State, Zip	015	015								NM CO	UT AZ	
	none:	by 8	by 8	121	99	o.	0.0				X		
Email: En	mail: V	0 RO	80	y 80	y 82(601	Je 3(
Time Date Sampled Matrix No Containers Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0				Rem	arks	
SP61							X						
SP64	2						(
SP66	3											184)	
	4												
SP69 SP70	5												
SP-16	6												
SP78	7										Red		
SP78 SP79	8												
SP81	9												
SP87	W												
Additional Instructions:													
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tamp time of collection is considered fraud and may be grounds for legal action. Sampled by:	Kenn								vation must be re- re 0 but less than		day they are sam ent days.	oled or received	
Relinquished by: (Stanature) Date 7/12/2014 7:40 p	Received by: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature)	19	Time 2	50		Recei	ved on i	ce:	Lab Us	e Only			
Relinquished by: (Signature) Date Time 10:15 An	Received by: (Signatur) Date		Time		-	T1 AVG 1	emp °C		T2		<u>T3</u>		
Sample Matrix: S - Soil, Sd - Solid, Se - Sludge, A - Aqueous, O - Other	Container	Type:	g - gl	ass, r	o - po	ly/plas	tic, ag -	ambe	r glass, v -	VOA			
Note: Samples are discarded 30 days after results are reported unless other arra	ngements are made. Hazardous samples will be returned to c										oove samples	is applicable	
ly 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.													



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Client: WPX (g/lsbord Report Attention					ntion	Lab Use Only TAT EPA							EPA Progra	am							
Project:	Ross	Drew	V Vrit	#57	3.4	Report due by:	file.		Lab WO# Job Number							1D 3	3D	RCRA	CWA	SDWA	
Project N	/lanager:	Kai	5 Row	e		Attention:			P9	070	537		041	08	063	51	1	X			
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Email:						Email:			30 F	30 5	, 80	826	601	930						X	
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					SP	91		11						X						72.5	
					SP	93	- ··-	11	X	X				X							
					SP	****	wallo-	13	X	メ				X							
					SP	102		14						X							
					Sh			15						乂							
					Sn			16						X					5		
					Sv	√3		17	X	人				X							
					8	W4 W5		18						X							
					S	W5		19						\angle							
					S	W7		20						X							
Addition	Additional Instructions:																***				
l				his sample. I am a		tampering with or intentionally mislabelling	the sample loc	ation, date or											ived on ice th C on subseq	ne day they are san uent days.	pled or received
Relinquished by: (Signature) Date Time Pereived by: (Signature) Date Time Received by: (Signature) Date Date Date						Pate Lab Use Only Received on ice: B/N															
Relinquishe	ed by: (Signa	ature)	Date	13/19	ne 0:15	Received by: (Signature)		Date	1	Time			T1 AVG			4	12			<u>T3</u>	
				queous, O - Oth				Container	Туре	: g - g	lass,					nber	glass	, v - V	'OA		
Note: Sampl	es are discard	ded 30 days a	fter results a	re reported unle	ss other	arrangements are made. Hazardous sa		e returned to c												bove samples	is applicable
only to those	e samples rec	eived by the	laboratory w	th this COC. Th	e liability	of the laboratory is limited to the amo	ount paid for	on the report.													



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Project Information	Chain of Cust	tody										Page _	of 5
Client: WIX (a.1.5bad) Project: Coss Draw Unit #57 Project Manager: Cris Rowe Address: On file City, State, Zip Phone: Email: Time Date Sampled Sampled Matrix No Containers Sample ID	Report Attention Report due by: Attention: Address: City, State, Zip Phone: Email:	DRO/ORO by 8015	GRO/DRO by 8015 #0) (nalysi	chloride 300.0	24.6	TAT LD 3D	RCR	NM C		
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	SWIZ	23											
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Additional Instructions:				l	L								
I, (field sampler), attest to the validity and authenticity of this sample. I am awa time of collection is considered fraud and may be grounds for legal action. Sam	Kallia	tion, date or		_								ce the day they are osequent days.	sampled or received
Relinquished by: (Signature) Date Time	40 pm Countrell steval	Date Date	19	Time 2 Time	50]	Γ1	ved on i		Lab U: 2 / N	se Only	<u>T3</u>	
Sample Matrix: S - Soil, Sd Solid, Sg - Sludge, A - Aqueous, O - Other_		Container											
Note: Samples are discarded 30 days after results are reported unless only to those samples received by the laboratory with this COC. The			entor	dis pos	ed of a	at the cl	nent ex	pense. Th	e report l	for the ana	lysis of th	ne above samp	ies is applicable

Senvirotech
Analytical Laboratory

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

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

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labadmin@envirotech-inc.com

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Client: WPX (arlshad Repo							Report Attention eport due by: 3- 54 La						La	b Us	e On	ly	A I		TA	T	EPA Program		m
Project:		ss Dav	V Vnit	#57				Dn	file_		Lab	WO#			Job I	Numl	er -0(00	1D_3		RCRA	CWA	SDWA
Project M	lanager:		Rove			Atter					Po	1070	237		04	108	-06	257		X			
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City, State	e, Zip		1			City,	State, Zip				8015	8015										NM CO	UT AZ
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Email:			<u> </u>			Emai	t:	1	1		RO L	RO E	/80	82E	601	e 30						X	
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID						Lab Number	DRO/OI	GRO/DRO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride						Rem	arks
Samples	7/10	John Cies	+		٥٦.					1		0		>	4	X							
	1112	bre			SP61					1						7							
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					SP7					8	Der												
					SP8					9													
	1				SP8-					10						1							
Additiona	al Instru	ctions:	1							110							No. and	1					
				this sample. I ar		ampering	with or intention	Le A	ing the sample loc	ation, date or					ALC: NO.						on subsequ	e day they are san sent days	pled or received
Relinquishe			Date	. 3. i=D3 action		T	Received by: (Signatur	1	Date /		Time				-		-	Lal	b Use	Only		
1/00		101118	- 71	12/2014	2:40	pm	Received by: (Received by: (July	Twal	17/12/	13	1 Time	50)	Rece	eived	on ic	e:	0	N			THE REAL
Relinguishe	d by: (Sigr	Lane)	Date	listia	10:16 W	AM	Received by: (Signatur		Date		Time		H	T1 AVG	Tem	p °C_	-4	T2			<u>T3</u>	
				queous, O - O		5 OF 30			mass.	Container	Type	: g - p	lass.						glass	. v - V	'OA		
						arranger	ments are made	. Hazardous	s samples will be													bove samples	is applicable
							aboratory is limi							7 1									107.



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

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Client: WPX (acishord		Report Attention			La	b Use	se Only			TAT	E	PA Program		
Project: ROSS Draw Uni.	+ #57	Report due by: on file		Lab \	WO#			Job Nur	nber	11	D 3D	RCRA	CWA	SDWA
Project Manager: Cis Row	Ne	Attention:		Pq	070	37		0410	8-063	il 🗆	X	1907-1800 - 1111 - 1111 -		
Address: 0~ fix		Address:							and Meth				Sta	te
City, State, Zip		City, State, Zip		15	15							TEN PER	NM CO	UT AZ
Phone:		Phone:		y 80	y 80	=	0	0.0	1 3 4				1	
Email:		0 b	9.O	802	826	6010 e 300					X			
Time Date No	Comple ID		Lab	DRO/ORO by 8015	GRO/DRO'by 8015	BTEX by 8021	VOC by 8260	Metals 6010 Chloride 300.0					Dom	nelic
Sampled Sampled Matrix Containers	Sample ID		Number	DRC	GRC	BTE	VOC	Metals					Rem	dIKS
7/12 8 mant	SP	91	111					1						
	SP	93	17	X	X			×						
	SP	95	13	X	X			×						77
	SP	SP 102						×						
	Sh		15					Х						
	Sw	2	16					×						
	Sn		17	X	X			X						
	81	14	18					×						
	Si	45	19					1						
	S'	W7	120					X						
Additional Instructions:														
time of collection is considered froud and may be acque	de for logal action. Sampled his	ampering with or intervioually mislabelling the sample loca					F		The second secon			ceived on ice the 6 C on subsequ	eday they are samp ent days.	iled or received
Relinquished by: (Signature) Relinquished by: (Signature) Dat	Pate 9	19	Time L.	50		Receive	d on ice:	1	Lab Us	e Only				
Relinquished by: (Signature) Dat	Received by: (Signature)	Date	•	Time			T1 AVG Te	mp °C	4	2		<u>T3</u>		
Sample Matrix: S - Soil, Sd - Solid, Sg/Sludge, A -	Container	Type.	g-g	lass,				ber g	lass, v -	VOA				
Note: Samples are discarded 30 days after results	are reported unless other a	rrangements are made. Hazardous samples will be	returned to c	lient or									bove samples	s applicable



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

Client: WYX (a.15) Report Attention							n	Lab Use Only TAT EPA Pro							A Progra	m				
Project:	Project: Ross Draw Unit #37 Report due by: on file							Lab WO#					Job Number				1D 3D RCRA			SDWA
Project N	/lanager	: (Cr	is Rou	ie		Attention:		PG	070	13		041	08	-0639		X				
Address:			an fik			Address:								Metho		-			Sta	te
City, Stat	e, Zip					City, State, Zip		15	8015		THE								NM CO	UT AZ
Phone:						Phone:		by 8015	y 80	п	0		0.0						V	
Email:			Y			Email:		0 b	d 01	by 8021	8260	6010	300						X	
Time	Date		No				Lab	10/0	J/DR		by by	als (oride						0	
Sampled	Sample	Matrix	Containers	Sample ID			Number	DRO/ORO	GRO/DRO by	втех	VOC by	Metals	Chloride 300.0						Rem	arks
	7/12	pacting.			SW	19 111 N12 P101	21	X	X				X							
					22	X	X				1									
					SV	23														
					34	X	X				1									
							100													
																		- U		
Addition	al Instru	ictions:																V. Sand		
time of collec	tion is consi	dered fraud and i	may be grounds	for legal action. San		ampering with or intentionally mislabelling the sai	mple location, date or							hermal prese avg temp abo					day they are samp nt days	pled or received
Relinquish	ed by: (Sig	nature)	~ Date.	13/19 1	:40	Received by: (Signature) Received by: (Signature)	all 7/12	119	Time.	50		Rece	ived o	on ice:	La	ab Use / N	e Only	y		
Relinquish	ad by: (Sig	nature)	Date	12/10 Tim	0.15		Date	,	Time			T1	Temp		T2				<u>T3</u>	
Sample Mart	rive S - Soil	Sd Solides	Sludge A A	queous, O - Other		- TYPE	Container	Type		rlace					ar glass	S V = 1	VOA			
_						arrangements are made. Hazardous sample												ne ab	ove samples	is applicable
						of the laboratory is limited to the amount p														



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

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Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 11/9/2019 Job Number: 14078-0003 Work Order: P911039

Project Name/Location: Ross Draw #57

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.

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WPX (Carlsbad)

Project Name:

Ross Draw #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 14078-0003 Kevin Smith **Reported:** 11/13/19 16:23

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP92	P911039-01A	Soil	11/07/19	11/09/19	Glass Jar, 4 oz.

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WPX (Carlsbad)

Project Name:

Ross Draw #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: 14078-0003 Project Manager: Kevin Smith Reported:

11/13/19 16:23

SP92

	P911039-01 (Solid)													
]	Reporting												
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes					
Anions by 300.0/9056A														
Chloride	254	20.0	mg/kg	1	1946012	11/12/19	11/12/19	EPA 300.0/9056A						

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RPD

%REC



WPX (Carlsbad) Project Name: Ross Draw #57

5315 Buena Vista DrProject Number:14078-0003Reported:Carlsbad NM, 88220Project Manager:Kevin Smith11/13/19 16:23

Reporting

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Spike

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes						
Batch 1946012 - Anion Extraction EPA 300.0/9056A																
Blank (1946012-BLK1)				Prepared:	11/12/19 0 A	Analyzed: 1	analyzed: 11/12/19 1									
Chloride	ND	20.0	mg/kg													
LCS (1946012-BS1)				Prepared:	11/12/19 0 A	Analyzed: 1	1/12/19 1									
Chloride	251	20.0	mg/kg	250		100	90-110									
Matrix Spike (1946012-MS1)	Source	e: P911036-0	01	Prepared:	11/12/19 0 A	Analyzed: 1	1/12/19 1									
Chloride	264	20.0	mg/kg	250	ND	106	80-120									
Matrix Spike Dup (1946012-MSD1)	Source	e: P911036-0	01	Prepared:	11/12/19 0 A	Analyzed: 1	1/12/19 1									
Chloride	262	20.0	mg/kg	250	ND	105	80-120	0.805	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.

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

WPX (Carlsbad) Project Name: Ross Draw #57

5315 Buena Vista Dr Project Number: 14078-0003 Reported:
Carlsbad NM, 88220 Project Manager: Kevin Smith 11/13/19 16:23

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

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

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

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Project Information * Invoice HPL

Client: WPX Energy					10000	Report Attention					also, i		La	ab Us	Use Only					T	Е	m			
Project: Project M	Ross	Draw 7	57)			Report due by: Kevin Smith Debbie Witson Attention: on file					Lab	ab WO#			Job 1			1D 3D		RCRA	CWA SDWA				
Project N	lanager:	Kerin !	Smith			Attention:	On	file '			PC	1110	39		14	40	8-00	03		X					
Address:	01	a file				Address:									Analy	sis ar	nd Met	hod				Sta	ite		
City, Stat	e, Zip					City, State, Zi	р				15	015										NM CO	UT AZ		
Phone:						Phone:					y 80	y 80	П	0		0.0		- 1							
Email:		V				Email:		V	18		Q p	9 0	802	826	3010	300						X			
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	•				A	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0						Ren	narks		
10:15am	11/7/200	Soil	ı	S	P92	_				1						X									
	11/1/22																		12						
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Addition	al Instruc	tions:																							
				this sample. I ar		ampering with or inte	125								packed ii	n ice at a	in avg tem	p above	0 but le	ess than 6	°C on subsequ		pled or received		
Relinquish	ed by: (Sign	ture)—	Date	8019 19119	7:40	Received	ov: (Signat	ure) ure) ure Lop	7	Date / /	9	Time	14C)	Rece	ived	on ice	e:	La	b Us	e Only				
Relinquish	ed by: (Sign:	ature)	Date	1919	Time	Received	Reci	ure)	en	Date 11/91	119	Time	0:00		T1 AVG	Tem	p °C	4	T2			<u>T3</u>			
				queous, 0 - O		'			0	Container	Туре	: g - g	glass,	p - pc	oly/pla	astic,	ag - ar	nber	glas	s, v - \	VOA				
Note: Sampl	les are discar	ded 30 days	after results	are reported u	nless other a	rrangements are r	nade. Haza	rdous samples	will be	returned to o	lient o	r dispo	sed of	at the	client e	expens	e. The r	eport	for th	e analy	ysis of the a	bove samples	is applicable		
						of the laboratory i																			





Appendix D: Site Photos





WPX Energy Permian, LLC| Ross Draw Unit # 57 Spill | 9/12/2019





WPX Energy Permian, LLC| Ross Draw Unit # 57 Spill | 9/12/2019





WPX Energy Permian, LLC| Ross Draw Unit # 57 Spill | 9/12/2019





WPX Energy Permian, LLC| Ross Draw Unit # 57 Spill | 9/12/2019













WPX Energy Permian, LLC| Ross Draw Unit # 57 Spill | 9/12/2019





WPX Energy Permian, LLC| Ross Draw Unit # 57 Spill | 9/12/2019











Excavation Following Backfill July 30, 2019





Excavation Following Backfill July 30, 2019



WPX Energy Permian, LLC| Ross Draw Unit # 57 Spill | 9/12/2019



Excavation Following Backfill July 30, 2019

