

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:



Date: 6/18/19

Walter Hinchman, Laboratory Director



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

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:31

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

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:31

SP1
P906042-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	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/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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:31

SP2
P906042-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:31

SP3
P906042-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.0 %		70-130	1924017	06/12/19	06/12/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		98.6 %		70-130	1924017	06/12/19	06/12/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		96.4 %		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.0 %		70-130	1924017	06/12/19	06/12/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		98.6 %		70-130	1924017	06/12/19	06/12/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:31

SP4
P906042-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.6 %		70-130	1924017	06/12/19	06/12/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		99.8 %		70-130	1924017	06/12/19	06/12/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		98.3 %		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	
<i>Surrogate: n-Nonane</i>		100 %		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.6 %		70-130	1924017	06/12/19	06/12/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		99.8 %		70-130	1924017	06/12/19	06/12/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		98.3 %		70-130	1924017	06/12/19	06/12/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	1130	20.0	mg/kg	1	1924019	06/12/19	06/12/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %		70-130	1924017	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		98.2 %		70-130	1924017	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		96.2 %		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	06/12/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924016	06/12/19	06/12/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		102 %		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	06/13/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %		70-130	1924017	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		98.2 %		70-130	1924017	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		96.2 %		70-130	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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: 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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.5 %		70-130	1924017	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		98.8 %		70-130	1924017	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		95.8 %		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.5 %		70-130	1924017	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		98.8 %		70-130	1924017	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		95.8 %		70-130	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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:31

SP7
P906042-07 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.3 %		70-130	1924017	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		99.1 %		70-130	1924017	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.3 %		70-130	1924017	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		99.1 %		70-130	1924017	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		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 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:31

SP8
P906042-08 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.1 %		70-130	1924017	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		98.5 %		70-130	1924017	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		98.7 %		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.1 %		70-130	1924017	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		98.5 %		70-130	1924017	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:31

SP9
P906042-09 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	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 - 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		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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:31

SP10
P906042-10 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %		70-130	1924017	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		99.0 %		70-130	1924017	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		97.3 %		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %		70-130	1924017	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		99.0 %		70-130	1924017	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:31

SP11
P906042-11 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %		70-130	1924017	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		99.7 %		70-130	1924017	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		97.3 %		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %		70-130	1924017	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		99.7 %		70-130	1924017	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		97.3 %		70-130	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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.4 %		70-130	1924017	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		100 %		70-130	1924017	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		97.0 %		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.4 %		70-130	1924017	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		100 %		70-130	1924017	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:31

SP13
P906042-13 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	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/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		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 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:31

SP14
P906042-14 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %		70-130	1924017	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		97.9 %		70-130	1924017	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		95.4 %		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %		70-130	1924017	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		97.9 %		70-130	1924017	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:31

SP15
P906042-15 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %		70-130	1924017	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		99.1 %		70-130	1924017	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		95.3 %		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %		70-130	1924017	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		99.1 %		70-130	1924017	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:31

SP16
P906042-16 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	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/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	06/12/19	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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:31

SP17
P906042-17 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	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/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		98.3 %		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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:31

SP18
P906042-18 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.5 %		70-130	1924017	06/12/19	06/12/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		104 %		70-130	1924017	06/12/19	06/12/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		96.9 %		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	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924016	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		99.4 %		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.5 %		70-130	1924017	06/12/19	06/12/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		104 %		70-130	1924017	06/12/19	06/12/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:31

SP19
P906042-19 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	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/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

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

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:31

SP20
P906042-20 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.4 %		70-130	1924017	06/12/19	06/12/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		105 %		70-130	1924017	06/12/19	06/12/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		95.5 %		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	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924016	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		98.2 %		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.4 %		70-130	1924017	06/12/19	06/12/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		105 %		70-130	1924017	06/12/19	06/12/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		95.5 %		70-130	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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WPX (Carlsbad)
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Ross Draw Unit #57
Project Number: 04108-0369
Project Manager: Kris Rowe

Reported:
06/18/19 10:31

Volatile Organic Compounds by 8260 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1924017 - Purge and Trap EPA 5030A

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)

Source: 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)

Source: 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	
p,m-Xylene	5.43	0.0500	"	5.00	ND	109	43-135	1.13	27	
o-Xylene	2.69	0.0250	"	2.50	ND	108	43-135	0.979	27	
Total Xylenes	8.13	0.0250	"	7.50	ND	108	43-135	1.08	27	
Surrogate: 1,2-Dichloroethane-d4	0.510		"	0.500		102	70-130			
Surrogate: Toluene-d8	0.500		"	0.500		99.9	70-130			
Surrogate: Bromofluorobenzene	0.493		"	0.500		98.5	70-130			

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

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:31

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1924016 - DRO Extraction EPA 3570
Blank (1924016-BLK1)

Prepared: 06/12/19 1 Analyzed: 06/14/19 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: 06/12/19 1 Analyzed: 06/12/19 2

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)

Source: P906042-01

Prepared: 06/12/19 1 Analyzed: 06/12/19 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)

Source: P906042-01

Prepared: 06/12/19 1 Analyzed: 06/12/19 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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:31

Nonhalogenated Organics by 8015 - GRO - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 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)

Source: 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)

Source: 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			
Surrogate: Bromofluorobenzene	0.485		"	0.500		96.9	70-130			

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

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:31

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1924019 - Anion Extraction EPA 300.0/9056A
Blank (1924019-BLK1)

Prepared & Analyzed: 06/12/19 1

Chloride	ND	20.0	mg/kg
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LCS (1924019-BS1)

Prepared & Analyzed: 06/12/19 1

Chloride	256	20.0	mg/kg	250	102	90-110
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Matrix Spike (1924019-MS1)
Source: P906042-01

Prepared & Analyzed: 06/12/19 1

Chloride	1060	20.0	mg/kg	250	757	120	80-120
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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
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QC Summary Report
Comment:

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

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

Project Name: Ross Draw Unit #57
Project Number: 04108-0369
Project Manager: Kris Rowe

Reported:
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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Additional Instructions:

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

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

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

Client: <u>WPA Cuckstad</u> Project: <u>Ross Draw Unit #57</u> Project Manager: <u>Kris Rowe</u> Address: <u>on file</u> City, State, Zip: <u>↓</u> Phone: <u>↓</u> Email: <u>↓</u>					Report Attention Report due by: _____ Attention: _____ Address: _____ City, State, Zip: _____ Phone: _____ Email: _____					Lab Use Only Lab WO# <u>P906042</u> Job Number <u>04108-0369</u> Analysis and Method: _____ DRO/ORO by 8015 _____ GRO/DRO by 8015 _____ BTEX by 8021 _____ VOC by 8260 _____ Metals 6010 _____ Chloride 300.0 _____					TAT 1D _____ 3D _____		EPA Program RCRA _____ CWA _____ SDWA _____ State: _____ NM _____ CO _____ UT _____ AZ _____			
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	Remarks								
	6/16	Soil	1	SP11	11	X	X	X			X									
				SP12	12															
				SP13	13															
				SP14	14															
				SP15	15															
				SP16	16															
				SP17	17															
				SP18	18															
				SP19	19															
				SP20	20															

Additional Instructions:

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

v. site in cooler

Relinquished by: (Signature) <u>Kevin Amos</u> Date <u>6/11/2019</u> Time <u>10:45</u>				Received by: (Signature) <u>Britney Stovall</u> Date <u>6/11/19</u> Time <u>10:45</u>				Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>			
Relinquished by: (Signature) <u>FedEx</u> Date <u>6/12/19</u> Time <u>10:00</u>				Received by: (Signature) <u>Jason J. Myer</u> Date <u>6/12/19</u> Time <u>10:00</u>							

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

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