

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

Report Reviewed By:



Date: 6/19/19

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:
 06/19/19 10:24

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

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

Reported:
 06/19/19 10:24

SP97
P906047-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %		50-150	1924033	06/13/19	06/18/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/19/19 10:24

SP98
P906047-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %		50-150	1924033	06/13/19	06/18/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

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	
<i>Surrogate: n-Nonane</i>		97.9 %		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		102 %		50-150	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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WPX (Carlsbad)
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 Carlsbad NM, 88220

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

Reported:
 06/19/19 10:24

SP99
P906047-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %		50-150	1924033	06/13/19	06/18/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/19/19 10:24

SP100
P906047-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.9 %		50-150	1924033	06/13/19	06/18/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

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	
<i>Surrogate: n-Nonane</i>		98.8 %		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		103 %		50-150	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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/19/19 10:24

SP101
P906047-05 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.8 %		50-150	1924033	06/13/19	06/18/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/19/19 10:24

SP102
P906047-06 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.0 %		50-150	1924033	06/13/19	06/18/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

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	
<i>Surrogate: n-Nonane</i>		97.2 %		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		104 %		50-150	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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/19/19 10:24

SP103
P906047-07 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.8 %		50-150	1924033	06/13/19	06/18/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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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WPX (Carlsbad)
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 Carlsbad NM, 88220

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

Reported:
 06/19/19 10:24

SW1
P906047-08 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.6 %		50-150	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	
<i>Surrogate: n-Nonane</i>		101 %		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %		50-150	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
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/19/19 10:24

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.0 %		50-150	1924033	06/13/19	06/18/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/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	
<i>Surrogate: n-Nonane</i>		99.8 %		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		104 %		50-150	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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/19/19 10:24

SW3
P906047-10 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.0 %		50-150	1924033	06/13/19	06/18/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/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	
<i>Surrogate: n-Nonane</i>		98.0 %		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/19/19 10:24

SW4
P906047-11 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.3 %		50-150	1924033	06/13/19	06/18/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/19/19 10:24

SW5
P906047-12 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.6 %		50-150	1924033	06/13/19	06/18/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/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	
<i>Surrogate: n-Nonane</i>		101 %		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %		50-150	1924033	06/13/19	06/18/19	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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/19/19 10:24

SW6
P906047-13 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.8 %		50-150	1924033	06/13/19	06/18/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/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	
<i>Surrogate: n-Nonane</i>		96.7 %		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		104 %		50-150	1924033	06/13/19	06/18/19	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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/19/19 10:24

SW7
P906047-14 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.6 %		50-150	1924033	06/13/19	06/18/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/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	
<i>Surrogate: n-Nonane</i>		98.1 %		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		104 %		50-150	1924033	06/13/19	06/18/19	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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/19/19 10:24

SW8
P906047-15 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.8 %		50-150	1924033	06/13/19	06/18/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/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	
<i>Surrogate: n-Nonane</i>		98.4 %		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		104 %		50-150	1924033	06/13/19	06/18/19	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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/19/19 10:24

SW9
P906047-16 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.6 %		50-150	1924033	06/13/19	06/18/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/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	
<i>Surrogate: n-Nonane</i>		97.0 %		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %		50-150	1924033	06/13/19	06/18/19	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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/19/19 10:24

SW10
P906047-17 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.0 %		50-150	1924033	06/13/19	06/18/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/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	
<i>Surrogate: n-Nonane</i>		98.3 %		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %		50-150	1924033	06/13/19	06/18/19	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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/19/19 10:24

SW11
P906047-18 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.2 %		50-150	1924033	06/13/19	06/18/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/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	
<i>Surrogate: n-Nonane</i>		106 %		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		103 %		50-150	1924033	06/13/19	06/18/19	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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/19/19 10:24

SW12
P906047-19 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.6 %		50-150	1924033	06/13/19	06/18/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/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	
<i>Surrogate: n-Nonane</i>		103 %		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		104 %		50-150	1924033	06/13/19	06/18/19	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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/19/19 10:24

Volatile Organics by EPA 8021 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1924033 - Purge and Trap EPA 5030A
Blank (1924033-BLK1)

Prepared: 06/13/19 0 Analyzed: 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 Analyzed: 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)

Source: P906047-01

Prepared: 06/13/19 0 Analyzed: 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)

Source: P906047-01

Prepared: 06/13/19 0 Analyzed: 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

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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:
 06/19/19 10:24

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 1924035 - DRO Extraction EPA 3570
Blank (1924035-BLK1)

Prepared: 06/13/19 1 Analyzed: 06/17/19 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 Analyzed: 06/17/19 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)

Source: P906047-01

Prepared: 06/13/19 1 Analyzed: 06/17/19 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)

Source: P906047-01

Prepared: 06/13/19 1 Analyzed: 06/17/19 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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/19/19 10:24

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 1924033 - Purge and Trap EPA 5030A
Blank (1924033-BLK1)

Prepared: 06/13/19 0 Analyzed: 06/18/19 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: 06/18/19 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)

Source: P906047-01

Prepared: 06/13/19 0 Analyzed: 06/18/19 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)

Source: P906047-01

Prepared: 06/13/19 0 Analyzed: 06/18/19 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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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

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

Reported:
 06/19/19 10:24

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 1924055 - Anion Extraction EPA 300.0/9056A
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 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:
06/19/19 10:24

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: <u>WPX (Carlisle)</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: <u> </u> Attention: <u> </u> Address: <u> </u> City, State, Zip: <u> </u> Phone: <u> </u> Email: <u> </u>				Lab Use Only Lab WO# <u>P 906047</u> Job Number <u>04108-0369</u> Analysis and Method: <u> </u>				TAT 1D <u> </u> 3D <u> </u>		EPA Program RCRA <u> </u> CWA <u> </u> SDWA <u> </u> State: <u> </u> NM <u>X</u> CO <u> </u> UT <u> </u> AZ <u> </u>			
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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	1D	3D	RCRA	CWA	SDWA	Remarks	
	6/10/19	Soil	1	SP97	1	X	X	X			X							
				SP98	2													
				SP99	3													
				SP100	4													
				SP101	5													
				SP102	6													
				SP103	7													
				SW1	8													
				SW2	9													
				SW3	10													

Additional Instructions:

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

Relinquished by: (Signature) Kevin Duna Date 6/11/19 Time 2:00p Received by: (Signature) Courtney Stovall Date 6/11/19 Time 2:00

Relinquished by: (Signature) FedEx Date 6/12/19 Time 10:00 Received by: (Signature) Justin A. Hoff Date 6/12/19 Time 10:00

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

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

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

115 ice in cooler
 Received on ice: Y N
 T1 T2 T3
 AVG Temp °C 4

Client: <u>WPX Carlsbad</u> Project: <u>Ross Draw Unit #57</u> Project Manager: <u>Kniz Rave</u> Address: <u>on file</u> City, State, Zip: _____ Phone: _____ Email: _____				Report Attention Report due by: <u>on file</u> Attention: _____ Address: _____ City, State, Zip: _____ Phone: _____ Email: _____				Lab Use Only Lab WO# <u>P906047</u> Job Number <u>04108-0369</u> Analysis and Method: _____ DRO/DRO 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 _____ Remarks: _____			
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Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	Remarks			
	6/10/19	Soil	1	SW4	11	X	X	X			X				
				SW5	12										
				SW6	13										
				SW7	14										
				SW8	15										
				SW9	16										
				SW10	17										
				SW11	18										
				SW12	19										

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

Relinquished by: (Signature) <u>Kevin</u>	Date <u>6/11/19</u>	Time <u>2:00p</u>	Received by: (Signature) <u>Kevin</u>	Date <u>6/11/19</u>	Time <u>2:00pm</u>
Relinquished by: (Signature) <u>FedEx</u>	Date <u>6/12/19</u>	Time <u>10:00</u>	Received by: (Signature) <u>Jessica</u>	Date <u>6/12/19</u>	Time <u>10:00</u>

v-s ice in cooler

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.

Received on ice: Y N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

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

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

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