

July 23, 2019

CHASE SETTLE
EOG Y RESOURCES, INC
105 SOUTH 4TH STREET
ARTESIA, NM 88210

RE: MIMOSA FEDERAL SWD #3Y

Enclosed are the results of analyses for samples received by the laboratory on 07/22/19 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210

Fax To:

(575) 748-4131

Received:

07/22/2019

Reported:

07/23/2019

Project Name:

MIMOSA FEDERAL SWD #3Y

Project Number:

NOT GIVEN

Project Location:

MIMOSA FEDERAL SWD #3Y

Sampling Date:

07/18/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Sample ID: H 1 (H902512-01)

BTEX 8021B	mg/	kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2019	ND	1.78	88.8	2.00	4.65	
Toluene*	<0.050	0.050	07/22/2019	ND	1.82	90.9	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/22/2019	ND	1.73	86.6	2.00	4.02	
Total Xylenes*	<0.150	0.150	07/22/2019	ND	5.23	87.2	6.00	3.74	
Total BTEX	<0.300	0.300	07/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1420	16.0	07/23/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	190	95.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	182	91.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	101 %	6 41-142							
Surrogate: 1-Chlorooctadecane	101 %	6 37.6-14	7						

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\*=Accredited Analyte

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EOG Y RESOURCES, INC **CHASE SETTLE** 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Reported: 07/23/2019

MIMOSA FEDERAL SWD #3Y Project Name:

07/22/2019

Project Number: NOT GIVEN

Project Location: MIMOSA FEDERAL SWD #3Y Sampling Date:

07/18/2019 Sampling Type: Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

### Sample ID: H 2 (H902512-02)

Received:

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2019	ND	1.78	88.8	2.00	4.65	
Toluene*	<0.050	0.050	07/22/2019	ND	1.82	90.9	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/22/2019	ND	1.73	86.6	2.00	4.02	
Total Xylenes*	<0.150	0.150	07/22/2019	ND	5.23	87.2	6.00	3.74	
Total BTEX	<0.300	0.300	07/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12000	16.0	07/23/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	190	95.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	182	91.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	103 5	% 41-142						160	
Surrogate: 1-Chlorooctadecane	105 9	% 37.6-14	7						

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EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 (575) 748-4131 Fax To:

Received:

07/22/2019

Sampling Date:

07/18/2019

Reported:

07/23/2019

Sampling Type:

Soil

Project Name:

MIMOSA FEDERAL SWD #3Y

Sampling Condition:

Cool & Intact

Project Number:

NOT GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

MIMOSA FEDERAL SWD #3Y

### Sample ID: H 3 (H902512-03)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2019	ND	1.78	88.8	2.00	4.65	
Toluene*	<0.050	0.050	07/22/2019	ND	1.82	90.9	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/22/2019	ND	1.73	86.6	2.00	4.02	
Total Xylenes*	<0.150	0.150	07/22/2019	ND	5.23	87.2	6.00	3.74	
Total BTEX	<0.300	0.300	07/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	07/23/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	190	95.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	182	91.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	108	% 41-142	•						
Surrogate: 1-Chlorooctadecane	108	% 37.6-14	7						

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EOG Y RESOURCES, INC **CHASE SETTLE** 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To:

(575) 748-4131

Received:

07/22/2019

Sampling Date:

07/18/2019

Reported:

07/23/2019

Sampling Type:

Soil

Project Name:

MIMOSA FEDERAL SWD #3Y

Sampling Condition:

Cool & Intact

Project Number:

NOT GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

MIMOSA FEDERAL SWD #3Y

### Sample ID: H 4 (H902512-04)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2019	ND	1.78	88.8	2.00	4.65	
Toluene*	<0.050	0.050	07/22/2019	ND	1.82	90.9	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/22/2019	ND	1.73	86.6	2.00	4.02	
Total Xylenes*	<0.150	0.150	07/22/2019	ND	5.23	87.2	6.00	3.74	
Total BTEX	<0.300	0.300	07/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 73.3-12	9			-			
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/23/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	190	95.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	182	91.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	102 9	% 41-142							
Surrogate: 1-Chlorooctadecane	103 9	37.6-14	7						

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EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

07/22/2019

Reported:

07/23/2019

Project Name:

MIMOSA FEDERAL SWD #3Y

Project Number:

Project Location:

NOT GIVEN MIMOSA FEDERAL SWD #3Y Sampling Date:

- ... –

07/18/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: H 5 (H902512-05)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2019	ND	1.78	88.8	2.00	4.65	
Toluene*	<0.050	0.050	07/22/2019	ND	1.82	90.9	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/22/2019	ND	1.73	86.6	2.00	4.02	
Total Xylenes*	<0.150	0.150	07/22/2019	ND	5.23	87.2	6.00	3.74	
Total BTEX	<0.300	0.300	07/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/23/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	190	95.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	182	91.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	96.8	% 41-142							
Surrogate: 1-Chlorooctadecane	98.4	% 37.6-14	7						

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EOG Y RESOURCES, INC **CHASE SETTLE** 105 SOUTH 4TH STREET ARTESIA NM, 88210 (575) 748-4131 Fax To:

Received:

07/22/2019

Reported:

07/23/2019

Project Name:

MIMOSA FEDERAL SWD #3Y

Project Number:

NOT GIVEN

Project Location:

MIMOSA FEDERAL SWD #3Y

Sampling Date:

Sampling Type: Sampling Condition: 07/18/2019 Soil

Sample Received By:

Cool & Intact

Tamara Oldaker

Sample ID: H 6 (H902512-06)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2019	ND	1.78	88.8	2.00	4.65	
Toluene*	<0.050	0.050	07/22/2019	ND	1.82	90.9	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/22/2019	ND	1.73	86.6	2.00	4.02	
Total Xylenes*	<0.150	0.150	07/22/2019	ND	5.23	87.2	6.00	3.74	
Total BTEX	<0.300	0.300	07/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/23/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	190	95.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	182	91.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	91.4	% 41-142							
Surrogate: 1-Chlorooctadecane	94.5	% 37.6-14	7						

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EOG Y RESOURCES, INC **CHASE SETTLE** 105 SOUTH 4TH STREET ARTESIA NM, 88210

Fax To:

(575) 748-4131

Received:

07/22/2019

Sampling Date:

07/18/2019

Reported:

07/23/2019

Sampling Type:

Soil

Project Name:

MIMOSA FEDERAL SWD #3Y

Sampling Condition:

Cool & Intact

NOT GIVEN

Sample Received By:

Tamara Oldaker

Project Number:

Project Location:

MIMOSA FEDERAL SWD #3Y

Sample ID: H 7 (H902512-07)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2019	ND	1.78	88.8	2.00	4.65	
Toluene*	<0.050	0.050	07/23/2019	ND	1.82	90.9	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/23/2019	ND	1.73	86.6	2.00	4.02	
Total Xylenes*	<0.150	0.150	07/23/2019	ND	5.23	87.2	6.00	3.74	
Total BTEX	<0.300	0.300	07/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/23/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	190	95.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	182	91.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	105 %	% 41-142	1				,		
Surrogate: 1-Chlorooctadecane	108 %	% 37.6-14	7						

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\*=Accredited Analyte

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EOG Y RESOURCES, INC **CHASE SETTLE** 105 SOUTH 4TH STREET ARTESIA NM, 88210

Fax To:

(575) 748-4131

Received:

07/22/2019

Sampling Date:

07/18/2019

Reported:

07/23/2019

Sampling Type:

Soil

Project Name:

MIMOSA FEDERAL SWD #3Y

Sampling Condition:

Cool & Intact

Project Number:

NOT GIVEN

Project Location:

MIMOSA FEDERAL SWD #3Y

Sample Received By:

Tamara Oldaker

Sample ID: H 8 (H902512-08)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2019	ND	1.78	88.8	2.00	4.65	
Toluene*	<0.050	0.050	07/23/2019	ND	1.82	90.9	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/23/2019	ND	1.73	86.6	2.00	4.02	
Total Xylenes*	<0.150	0.150	07/23/2019	ND	5.23	87.2	6.00	3.74	
Total BTEX	<0.300	0.300	07/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/23/2019	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	190	95.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	182	91.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	72.3	% 41-142							
Surrogate: 1-Chlorooctadecane	71.3	% 37.6-14	7						

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### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500CI-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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Relinquished by:	Relinquished by:	1831	Relinguisher by:		Special Instructions:			848		6 H6	SHS	hH h		2 H2	1 11	LAB # (lab use only)	OKJEK#: LLOU	一 プロックス	(lab use only)		Sampler Signature	Telephone No:	City/State/Zip:	Company Address:	.Company Name		Project Manager	101 East Mar
Date	Date	7-22-19	Date	IFH Extended	701 r	2		- 70	ē							FIELD CODE	i	ハン				575-748-4471	Artesia, NM 88210	: 105 South 4th Street	EOG Y Resources Inc.	Ciase Selle	Chase Settle	101 East Marland, Hobbs, NM 88240
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July 23, 2019

CHASE SETTLE
EOG Y RESOURCES, INC
105 SOUTH 4TH STREET
ARTESIA, NM 88210

RE: MIMOSA FEDERAL SWD #3Y

Enclosed are the results of analyses for samples received by the laboratory on 07/22/19 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



EOG Y RESOURCES, INC **CHASE SETTLE** 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

07/22/2019

Sampling Date:

07/18/2019

Reported:

07/23/2019

Sampling Type:

Soil

Project Name:

MIMOSA FEDERAL SWD #3Y

Sampling Condition:

Cool & Intact

Project Number:

NOT GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

MIMOSA FEDERAL SWD #3Y

Sample ID: V 4- 2.5' (H902513-01)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2019	ND	1.78	88.8	2.00	4.65	
Toluene*	<0.050	0.050	07/23/2019	ND	1.82	90.9	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/23/2019	ND	1.73	86.6	2.00	4.02	
Total Xylenes*	<0.150	0.150	07/23/2019	ND	5.23	87.2	6.00	3.74	
Total BTEX	<0.300	0.300	07/23/2019	ND				1	
Surrogate: 4-Bromofluorobenzene (PIL	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	07/23/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	190	95.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	182	91.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	90.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	90.2	% 37.6-14	7						

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EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210

Fax To:

(575) 748-4131

Received:

07/22/2019

Sampling Date:

07/18/2019

Reported:

07/23/2019

Sampling Type:

Soil

Project Name:

MIMOSA FEDERAL SWD #3Y

Sampling Condition:

Cool & Intact

Project Number:

NOT GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

MIMOSA FEDERAL SWD #3Y

Sample ID: V 7- 1' (H902513-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2019	ND	1.78	88.8	2.00	4.65	
Toluene*	<0.050	0.050	07/23/2019	ND	1.82	90.9	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/23/2019	ND	1.73	86.6	2.00	4.02	
Total Xylenes*	<0.150	0.150	07/23/2019	ND	5.23	87.2	6.00	3.74	
Total BTEX	<0.300	0.300	07/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	07/23/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	190	95.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	182	91.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	85.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	87.0	% 37.6-14	17						

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EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

07/22/2019

Sampling Date:

07/18/2019

Reported:

07/23/2019

Sampling Type:

Soil

Project Name:

MIMOSA FEDERAL SWD #3Y

Sampling Condition:

Cool & Intact

Project Number:

NOT GIVEN

Sample Received By:

Tamara Oldaker

Project Number: Project Location: MIMOSA FEDERAL SWD #3Y

Sample ID: V 8- 1' (H902513-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2019	ND	1.78	88.8	2.00	4.65	
Toluene*	<0.050	0.050	07/23/2019	ND	1.82	90.9	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/23/2019	ND	1.73	86.6	2.00	4.02	
Total Xylenes*	<0.150	0.150	07/23/2019	ND	5.23	87.2	6.00	3.74	
Total BTEX	<0.300	0.300	07/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	07/23/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	190	95.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	182	91.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	53.5	% 41-142	!						
Surrogate: 1-Chlorooctadecane	51.1	% 37.6-14	7						

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EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210

Fax To:

(575) 748-4131

Received:

07/22/2019

Sampling Date:

07/18/2019

Reported:

07/23/2019

Sampling Type:

Soil

Project Name:

MIMOSA FEDERAL SWD #3Y

Sampling Condition:

Cool & Intact

Project Number:

NOT GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

MIMOSA FEDERAL SWD #3Y

Sample ID: V 9- 1' (H902513-04)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2019	ND	1.78	88.8	2.00	4.65	
Toluene*	<0.050	0.050	07/23/2019	ND	1.82	90.9	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/23/2019	ND	1.73	86.6	2.00	4.02	
Total Xylenes*	<0.150	0.150	07/23/2019	ND	5.23	87.2	6.00	3.74	
Total BTEX	<0.300	0.300	07/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105	% 73.3-12	9 .						,
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	07/23/2019	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	190	95.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	182	91.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	75.8	% 41-142	!	1				`	
Surrogate: 1-Chlorooctadecane	74.9	% 37.6-14	7						

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EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 (575) 748-4131 Fax To:

Received:

07/22/2019

Reported:

07/23/2019

Project Name:

MIMOSA FEDERAL SWD #3Y

MIMOSA FEDERAL SWD #3Y

Project Number:

NOT GIVEN

Project Location:

Sampling Date:

07/18/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: V 10- 1' (H902513-05)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2019	ND	1.78	88.8	2.00	4.65	
Toluene*	<0.050	0.050	07/23/2019	ND	1.82	90.9	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/23/2019	ND	1.73	86.6	2.00	4.02	
Total Xylenes*	<0.150	0.150	07/23/2019	ND	5.23	87.2	6.00	3.74	
Total BTEX	<0.300	0.300	07/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	07/23/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	190	95.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	182	91.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	83.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	83.2	% 37.6-14	7						

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### **Notes and Definitions**

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500CI-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories

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ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

,	Relinguished by:	Relinquished by:	1	Relinguis			Special					5	4	W	2	_	LAB # (lab use only)	ORDER #:		lab use only)								
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			12	1		7 = 1	+										FIELD CODE	5/3					575-748-3471	Artesia, NM 88210	Company Address: 105 South 4th Street	ECC - Incoming in		: Chase Settle
	Date	Date	11-77	Date		II II																1	,	0	et	9	5	
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	Time	Time	20	Time	9	XTEMBLI											Ending Depth											
	Received by ELOT:	Received by:	Munora	Received by:		111 WELVEN.	7					7-18-19	7-18-19	7-18-19	7-18-19	7-18-19	Date Sampled											
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Rec	1	Sample Hand Delivered by Sampler/Client Rep. ? by Courier? UPS	Custody seals on cooler(s)	Labels on container(s) Custody seals on container(s)	VOCs Free of Headspace?	Sample Containers Intact?	Laboratory Comments:										Semivolatiles		L	Ц	e For:				redera	-		¥
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August 15, 2019

CHASE SETTLE
EOG Y RESOURCES, INC
105 SOUTH 4TH STREET
ARTESIA, NM 88210

RE: MIMOSA FEDERAL SWD #3Y

Enclosed are the results of analyses for samples received by the laboratory on 08/14/19 12:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keena

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

08/14/2019

Sampling Date:

08/14/2019

Reported:

08/15/2019

Sampling Type:

Soil

Project Name:

MIMOSA FEDERAL SWD #3Y

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

NOT GIVEN

Project Location:

MIMOSA FEDERAL SWD #3Y

Sample ID: V 4- 3' (H902782-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2019	ND	1.89	94.5	2.00	9.42	
Toluene*	<0.050	0.050	08/14/2019	ND	2.02	101	2.00	8.05	
Ethylbenzene*	<0.050	0.050	08/14/2019	ND	2.03	101	2.00	6.64	
Total Xylenes*	<0.150	0.150	08/14/2019	ND	6.19	103	6.00	6.23	
Total BTEX	<0.300	0.300	08/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/15/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2019	ND	207	103	200	1.69	
DRO >C10-C28*	918	10.0	08/14/2019	ND	208	104	200	1.45	
EXT DRO >C28-C36	280	10.0	08/14/2019	ND					
Surrogate: 1-Chlorooctane	101	% 41-142					v		
Surrogate: 1-Chlorooctadecane	136	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subclidaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine



EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received: Reported: 08/14/2019

08/15/2019

Project Name:

MIMOSA FEDERAL SWD #3Y

MIMOSA FEDERAL SWD #3Y

Project Number:

NOT GIVEN

Project Location:

Sampling Date:

08/14/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: V 8- 4' (H902782-02)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2019	ND	1.89	94.5	2.00	9.42	
Toluene*	<0.050	0.050	08/14/2019	ND	2.02	101	2.00	8.05	
Ethylbenzene*	<0.050	0.050	08/14/2019	ND	2.03	101	2.00	6.64	
Total Xylenes*	<0.150	0.150	08/14/2019	ND	6.19	103	6.00	6.23	
Total BTEX	<0.300	0.300	08/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/15/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2019	ND	207	103	200	1.69	
DRO >C10-C28*	<10.0	10.0	08/14/2019	ND	208	104	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/14/2019	ND					
Surrogate: 1-Chlorooctane	94.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	97.8	% 37.6-14	17						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keene



EOG Y RESOURCES, INC **CHASE SETTLE** 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

08/14/2019

Sampling Date:

08/14/2019

Reported:

08/15/2019

Sampling Type:

Soil

Project Name:

MIMOSA FEDERAL SWD #3Y

Sampling Condition:

Cool & Intact

Project Number:

NOT GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

MIMOSA FEDERAL SWD #3Y

Sample ID: V 9- 4' (H902782-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2019	ND	1.89	94.5	2.00	9.42	
Toluene*	<0.050	0.050	08/14/2019	ND	2.02	101	2.00	8.05	
Ethylbenzene*	<0.050	0.050	08/14/2019	ND	2.03	101	2.00	6.64	
Total Xylenes*	<0.150	0.150	08/14/2019	ND	6.19	103	6.00	6.23	
Total BTEX	<0.300	0.300	08/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/15/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2019	- ND	207	103	200	1.69	
DRO >C10-C28*	<10.0	10.0	08/14/2019	ND	208	104	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/14/2019	ND					
Surrogate: 1-Chlorooctane	83.5	% 41-142							
Surrogate: 1-Chlorooctadecane	85.6	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, Including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keene



EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

08/14/2019

Sampling Date:

08/14/2019

Reported:

08/15/2019

Sampling Type:

Soil

Project Name:

MIMOSA FEDERAL SWD #3Y

Sampling Condition:

Cool & Intact

Project Number:

NOT GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

MIMOSA FEDERAL SWD #3Y

Sample ID: V 10- 4' (H902782-04)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2019	ND	1.89	94.5	2.00	9.42	
Toluene*	<0.050	0.050	08/14/2019	ND	2.02	101	2.00	8.05	
Ethylbenzene*	<0.050	0.050	08/14/2019	ND	2.03	101	2.00	6.64	
Total Xylenes*	<0.150	0.150	08/14/2019	ND	6.19	103	6.00	6.23	
Total BTEX	<0.300	0.300	08/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					,
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/15/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2019	ND	207	103	200	1.69	
DRO >C10-C28*	<10.0	10.0	08/14/2019	ND	208	104	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/14/2019	ND					
Surrogate: 1-Chlorooctane	92.2	% 41-142							
Surrogate: 1-Chlorooctadecane	95.4	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### **Notes and Definitions**

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC

batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500CI-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine

# CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

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Š.	1 4	W <sub>s</sub>		ucti					4	4	4	ယ့						Sampler Signature:		Telephone No:	City/State/Zip:	Company Address: 104 South 4th Street	Company Name	Project Manager:	
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August 15, 2019

CHASE SETTLE
EOG Y RESOURCES, INC
105 SOUTH 4TH STREET
ARTESIA, NM 88210

RE: MIMOSA FEDERAL SWD #3Y

Enclosed are the results of analyses for samples received by the laboratory on 08/14/19 12:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keena

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

08/14/2019

Sampling Date:

08/14/2019

Reported:

08/15/2019

Sampling Type:

Soil

Project Name:

MIMOSA FEDERAL SWD #3Y

Sampling Condition:

Cool & Intact

Project Number:

NOT GIVEN

Sample Received By:

Tamara Oldaker

Project Number:
Project Location:

MIMOSA FEDERAL SWD #3Y

### Sample ID: H 1 + 1 (H902783-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2019	ND	1.89	94.5	2.00	9.42	
Toluene*	<0.050	0.050	08/14/2019	ND	2.02	101	2.00	8.05	
Ethylbenzene*	<0.050	0.050	08/14/2019	ND	2.03	101	2.00	6.64	
Total Xylenes*	<0.150	0.150	08/14/2019	ND	6.19	103	6.00	6.23	
Total BTEX	<0.300	0.300	08/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1650	16.0	08/15/2019	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2019	ND	207	103	200	1.69	
DRO >C10-C28*	<10.0	10.0	08/14/2019	ND	208	104	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/14/2019	ND					
Surrogate: 1-Chlorooctane	85.4	% 41-142	!						
Surrogate: 1-Chlorooctadecane	86.6	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

08/14/2019

Sampling Date:

08/14/2019

Reported:

08/15/2019

Sampling Type:

Soil

Project Name:

MIMOSA FEDERAL SWD #3Y

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Project Number:

NOT GIVEN

Project Location:

MIMOSA FEDERAL SWD #3Y

Sample ID: H 2 + 1 (H902783-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2019	ND	1.89	94.5	2.00	9.42	
Toluene*	<0.050	0.050	08/14/2019	ND	2.02	101	2.00	8.05	
Ethylbenzene*	<0.050	0.050	08/14/2019	ND	2.03	101	2.00	6.64	
Total Xylenes*	<0.150	0.150	08/14/2019	ND	6.19	103	6.00	6.23	
Total BTEX	<0.300	0.300	08/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105	% 73.3-12	9				,		
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	08/15/2019	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2019	ND	207	103	200	1.69	
DRO >C10-C28*	<10.0	10.0	08/14/2019	ND	208	104	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/14/2019	ND					
Surrogate: 1-Chlorooctane	86.6	% 41-142							
Surrogate: 1-Chlorooctadecane	89.5	% 37.6-14	7						

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\*=Accredited Analyte

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Celeg & Keene



EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 (575) 748-4131 Fax To:

08/14/2019 Received: Reported: 08/15/2019

Project Name: MIMOSA FEDERAL SWD #3Y

NOT GIVEN Project Number:

MIMOSA FEDERAL SWD #3Y Project Location:

Sampling Date:

08/14/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Tamara Oldaker

Sample ID: H 3 + 1 (H902783-03)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2019	ND	1.89	94.5	2.00	9.42	
Toluene*	<0.050	0.050	08/14/2019	ND	2.02	101	2.00	8.05	
Ethylbenzene*	<0.050	0.050	08/14/2019	ND	2.03	101	2.00	6.64	
Total Xylenes*	<0.150	0.150	08/14/2019	ND	6.19	103	6.00	6.23	
Total BTEX	<0.300	0.300	08/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	08/15/2019	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2019	ND	207	103	200	1.69	
DRO >C10-C28*	<10.0	10.0	08/14/2019	ND	208	104	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/14/2019	ND					
Surrogate: 1-Chlorooctane	96.6	% 41-142	!						
Surrogate: 1-Chlorooctadecane	97.9	% 37.6-14	7						

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\*=Accredited Analyte

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Celeg D. Kreene



### **Notes and Definitions**

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C
 Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

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August 26, 2019

CHASE SETTLE
EOG Y RESOURCES, INC
105 SOUTH 4TH STREET
ARTESIA, NM 88210

RE: MIMOSA FEDERAL SWD #3Y

Enclosed are the results of analyses for samples received by the laboratory on 08/23/19 8:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keena

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



EOG Y RESOURCES, INC **CHASE SETTLE** 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received: Reported: 08/23/2019

08/26/2019

Project Name: Project Number: MIMOSA FEDERAL SWD #3Y

MIMOSA FEDERAL SWD #3Y

Project Location:

**NOT GIVEN** 

Sampling Date:

08/22/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: H1 +3 (H902897-01)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2019	ND	1.69	84.6	2.00	7.56	
Toluene*	<0.050	0.050	08/23/2019	ND	1.83	91.3	2.00	8.61	
Ethylbenzene*	<0.050	0.050	08/23/2019	ND	1.94	97.0	2.00	8.57	
Total Xylenes*	<0.150	0.150	08/23/2019	ND	5.84	97.4	6.00	8.47	
Total BTEX	<0.300	0.300	08/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	91.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	08/26/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2019	ND	196	98.1	200	4.36	
DRO >C10-C28*	<10.0	10.0	08/23/2019	ND	192	96.0	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	08/23/2019	ND					
Surrogate: 1-Chlorooctane	99.7	% 41-142							
Surrogate: 1-Chlorooctadecane	105	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

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Celeg D. Keene



EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 (575) 748-4131

Fax To:

Received: Reported: 08/23/2019

08/26/2019

MIMOSA FEDERAL SWD #3Y

Project Name: Project Number:

Project Location:

NOT GIVEN

MIMOSA FEDERAL SWD #3Y

Sampling Date:

08/22/2019 Soil

Sampling Type:

Cool & Intact Sampling Condition:

Sample Received By:

Tamara Oldaker

Sample ID: H2 +3 (H902897-02)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2019	ND	1.69	84.6	2.00	7.56	
Toluene*	<0.050	0.050	08/23/2019	ND	1.83	91.3	2.00	8.61	
Ethylbenzene*	<0.050	0.050	08/23/2019	ND	1.94	97.0	2.00	8.57	
Total Xylenes*	<0.150	0.150	08/23/2019	ND	5.84	97.4	6.00	8.47	
Total BTEX	<0.300	0.300	08/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	91.8	% 73.3-12	9			1			
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/26/2019	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2019	ND	196	98.1	200	4.36	
DRO >C10-C28*	<10.0	10.0	08/23/2019	ND	192	96.0	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	08/23/2019	ND					
Surrogate: 1-Chlorooctane	104	% 41-142	<b>)</b>						
Surrogate: 1-Chlorooctadecane	110	% 37.6-14	7						

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\*=Accredited Analyte

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Celeg D. Keene



EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

08/23/2019

Sampling Date:

08/22/2019

Reported:

08/26/2019

Sampling Type:

Soil

Project Name:

MIMOSA FEDERAL SWD #3Y

Sampling Condition:

Cool & Intact

Project Number:

NOT GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

MIMOSA FEDERAL SWD #3Y

Sample ID: H3 +3 (H902897-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2019	ND	1.69	84.6	2.00	7.56	
Toluene*	<0.050	0.050	08/23/2019	ND	1.83	91.3	2.00	8.61	
Ethylbenzene*	<0.050	0.050	08/23/2019	ND	1.94	97.0	2.00	8.57	
Total Xylenes*	<0.150	0.150	08/23/2019	ND	5.84	97.4	6.00	8.47	
Total BTEX	<0.300	0.300	08/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	90.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/26/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2019	ND	196	98.1	200	4.36	
DRO >C10-C28*	<10.0	10.0	08/23/2019	ND	192	96.0	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	08/23/2019	ND					
Surrogate: 1-Chlorooctane	109 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	115 9	% 37.6-14	7						

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\*=Accredited Analyte

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### **Notes and Definitions**

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC

batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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### ARDINAL LABORATORIES

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

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## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST