



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H 1 (H902512-01)

| BTEX 8021B | | mg/kg | | Analyzed 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 (PII) 104 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed 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 | | Analyzed 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 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H 2 (H902512-02)

| BTEX 8021B | | mg/kg | Analyzed 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 (PIE) 103 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | Analyzed 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 | Analyzed 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 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H 3 (H902512-03)

| BTEX 8021B | | mg/kg | | Analyzed 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 (PIE) 106 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed 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 | | Analyzed 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 % 37.6-147

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*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H 4 (H902512-04)

| BTEX 8021B | | | mg/kg | | Analyzed 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 (PIC) 104 % 73.3-129

| Chloride, SM4500Cl-B | | | mg/kg | | | | | | | Analyzed 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 | | Analyzed 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 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H 5 (H902512-05)

| BTEX 8021B | | | mg/kg | | Analyzed 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 % 73.3-129

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed 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 | | Analyzed 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 % 37.6-147

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*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H 6 (H902512-06)

| BTEX 8021B | | | mg/kg | | Analyzed 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 (PIC) 104 % 73.3-129

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed 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 | | Analyzed 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 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H 7 (H902512-07)

| BTEX 8021B | | mg/kg | | Analyzed 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 (PIE) 103 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed 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 | | Analyzed 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

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H 8 (H902512-08)

| BTEX 8021B | | mg/kg | | Analyzed 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 (PIE) 103 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed 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 | | Analyzed 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 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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 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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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle

Company Name: EOG Y Resources Inc.

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4471

Sampler Signature: *[Signature]*

e-mail: Chase.Settle@eoqresources.com

(lab use only)

ORDER #: H902512

Project Name: M. mesa Federal SWD #3Y

Project #:

Project Loc: M. mesa Federal SWD #3Y

PO #: 205-0750

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Analyze For:

TCLP: ☐ TOTAL: ☐

TPH: ☐ TX 1005 TX 1006

Cations (Ca, Mg, Na, K)

Anions (Cl, SO4, Alkalinity)

SAR / ESP / CEC

Metals: As Ag Ba Cd Cr Pb Hg Se

Volatiles

Semivolatiles

BTX: 8021B

RCI

N.O.R.M.

Chlorides

SAR

RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

Standard TAT

| LAB # (lab use only) | FIELD CODE | Beginning Depth | Ending Depth | Date Sampled | Time Sampled | Field Filtered | Total #. of Containers | Ice | HNO ₃ | HCl | H ₂ SO ₄ | NaOH | Na ₂ S ₂ O ₃ | None | Other (Specify) | DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other | TPH: 8015B | TPH: TX 1005 TX 1006 | Cations (Ca, Mg, Na, K) | Anions (Cl, SO4, Alkalinity) | SAR / ESP / CEC | Metals: As Ag Ba Cd Cr Pb Hg S | Volatiles | Semivolatiles | BTX: 8021B | RCI | N.O.R.M. | Chlorides | SAR | RUSH TAT (Pre-Schedule) 24, 48 | Standard TAT | |
|----------------------|------------|-----------------|--------------|--------------|--------------|----------------|------------------------|-----|------------------|-----|--------------------------------|------|-----------------------------------------------|------|------------------|----------------------------------------------------------------------------------------------|------------|----------------------|-------------------------|------------------------------|-----------------|--------------------------------|-----------|---------------|------------|-----|----------|-----------|-----|--------------------------------|--------------|--|
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Special Instructions:

TPH Extended record.

Relinquished by:

Date: 7-22-19 Time: 11:30

Relinquished by:

Date: 7-22-19 Time: 14:15

Relinquished by:

Date: 7-22-19 Time: 14:15

Laboratory Comments:

Sample Containers Intact? ☒

VOCs Free of Headspace? ☒

Labels on containers? ☒

Custody seals on container(s)? ☒

Sample Hand Delivered by Sampler/Client Rep.? ☒

by Courier? ☐

UPS ☐ DHL ☐ FedEx ☐ Lone Star ☐

Temperature Upon Receipt: 4.1°C #97C
Sealed 4.5°C



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

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: Cool & Intact
Sample Received By: Tamara Oldaker

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

| BTEX 8021B | | mg/kg | | Analyzed 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 (PIE) 103 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed 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 | | Analyzed 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 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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: Cool & Intact
Sample Received By: Tamara Oldaker

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

| BTEX 8021B | | mg/kg | Analyzed 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 (PIE) 104 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | Analyzed 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 | Analyzed 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 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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: Cool & Intact
Sample Received By: Tamara Oldaker

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

| BTEX 8021B | | | mg/kg | | Analyzed 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 (PII) 103 % 73.3-129

| Chloride, SM4500Cl-B | | | mg/kg | | | | | | | Analyzed 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 | | Analyzed 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 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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: Cool & Intact
Sample Received By: Tamara Oldaker

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

| BTEX 8021B | | | mg/kg | | Analyzed 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 (PIC) 105 % 73.3-129

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed 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 | | Analyzed 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

Surrogate: 1-Chlorooctadecane 74.9 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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: Cool & Intact
Sample Received By: Tamara Oldaker

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

| BTEX 8021B | | | mg/kg | | Analyzed 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 % 73.3-129

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed 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 | | Analyzed 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 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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 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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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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

Analytical Results For:

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

 Received: 08/14/2019
 Reported: 08/15/2019
 Project Name: MIMOSA FEDERAL SWD #3Y
 Project Number: NOT GIVEN
 Project Location: MIMOSA FEDERAL SWD #3Y

 Sampling Date: 08/14/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

| BTEX 8021B | | mg/kg | | Analyzed 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 (PIE) 103 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed 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 | | Analyzed 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

Surrogate: 1-Chlorooctadecane 136 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/14/2019
Reported: 08/15/2019
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: NOT GIVEN
Project Location: MIMOSA FEDERAL SWD #3Y

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 | | Analyzed 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 % 73.3-129

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed 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 | | Analyzed 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 | | | | | |

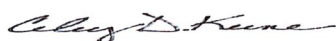
Surrogate: 1-Chlorooctane 94.4 % 41-142

Surrogate: 1-Chlorooctadecane 97.8 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 08/14/2019
 Reported: 08/15/2019
 Project Name: MIMOSA FEDERAL SWD #3Y
 Project Number: NOT GIVEN
 Project Location: MIMOSA FEDERAL SWD #3Y

 Sampling Date: 08/14/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

| BTEX 8021B | | | mg/kg | | Analyzed 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 (PIE) 107 % 73.3-129

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed 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 | | Analyzed 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 | | | | | |

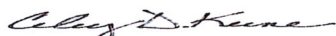
Surrogate: 1-Chlorooctane 83.5 % 41-142

Surrogate: 1-Chlorooctadecane 85.6 % 37.6-147

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 08/14/2019
 Reported: 08/15/2019
 Project Name: MIMOSA FEDERAL SWD #3Y
 Project Number: NOT GIVEN
 Project Location: MIMOSA FEDERAL SWD #3Y

 Sampling Date: 08/14/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

| BTEX 8021B | | | mg/kg | | Analyzed 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 % 73.3-129

| Chloride, SM4500Cl-B | | | mg/kg | | | | | | | Analyzed 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 | | Analyzed 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 | | | | | | |

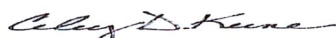
Surrogate: 1-Chlorooctane 92.2 % 41-142

Surrogate: 1-Chlorooctadecane 95.4 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

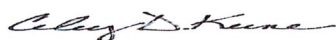
Notes and Definitions

| | |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

Caley D. Keene
Lab Director/Quality Manager

Analytical Results For:

 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: H 1 + 1 (H902783-01)

| BTEX 8021B | | | mg/kg | | Analyzed 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 (PIE) 104 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed 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 | | Analyzed 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 | | | | | | |

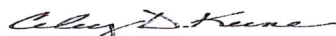
Surrogate: 1-Chlorooctane 85.4 % 41-142

Surrogate: 1-Chlorooctadecane 86.6 % 37.6-147

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/14/2019
Reported: 08/15/2019
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: NOT GIVEN
Project Location: MIMOSA FEDERAL SWD #3Y

Sampling Date: 08/14/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

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

| BTEX 8021B | | | mg/kg | | Analyzed 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 (PIE) 105 % 73.3-129

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed 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 | | Analyzed 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 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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: H 3 + 1 (H902783-03)

| BTEX 8021B | | | mg/kg | | Analyzed 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 (PIC) 104 % 73.3-129

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed 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 | | Analyzed 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 | | | | | |

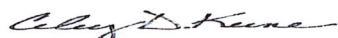
Surrogate: 1-Chlorooctane 96.6 % 41-142

Surrogate: 1-Chlorooctadecane 97.9 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

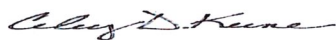
Notes and Definitions

| | |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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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Celey D. Keene, Lab Director/Quality Manager



(505) 303-2326 EAY (505) 303 2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: Mimosa Federal SWD #3Y

Project #:

Project Loc: Mimosa Federal SVD #3Y

PO #: 205-0750

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Chase Settle@geogresources.com

ORDER #: 4902783

| LAB # (lab use only) | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|---------------------------------------------------------------------------------------------|--------|
| ORDER #: H902783 | | | | | | | |
| | | | | | | Analyze For: | |
| | | | | | | TCLP: | |
| | | | | | | TOTAL: | |
| LAB # (lab use only) FIELD CODE Beginning Depth Ending Depth Date Sampled Time Sampled Field Filtered Total #. of Containers | | | | | | Preservation & # of Containers | Matrix |
| | | | | | | Ice | |
| | | | | | | HNO ₃ | |
| | | | | | | HCl | |
| | | | | | | H ₂ SO ₄ | |
| | | | | | | NaOH | |
| | | | | | | Na ₂ S ₂ O ₃ | |
| | | | | | | None | |
| | | | | | | Other (Specify) | |
| | | | | | | DW=Drinking Water SL=Sludge GW = Groundwater S=Sol/Solid NP=Non-Potable Specify Other | |
| | | | | | | TPH: 8015B | |
| | | | | | | TPH: TX 1005 TX 1006 | |
| | | | | | | Cations (Ca, Mg, Na, K) | |
| | | | | | | Anions (Cl, SO ₄ , Alkalinity) | |
| | | | | | | SAR / ESP / CEC | |
| | | | | | | Metals: As Ag Ba Cd Cr Pb Hg Se | |
| | | | | | | Volatiles | |
| | | | | | | Semivolatiles | |
| | | | | | | BTEX: 8021B | |
| | | | | | | RCI | |
| | | | | | | N.O.R.M. | |
| | | | | | | Chlorides | |
| | | | | | | SAR | |
| | | | | | | RUSH TAT (Pre-Schedule) 24, 48, 72 hrs | |
| | | | | | | Standard TAT | |

| (lab use only) | Date | Time | Received by: | Date | Time | Temperature Upon Receipt: #03 Recept- -8°C °C |
|------------------------------|---------|-------|--------------|---------|-------|--------------------------------------------------|
| Relinquished by: [Signature] | 8/14/19 | 11:30 | [Signature] | 8-14-19 | 12:05 | -8°C |
| Retrieved by: | | | | | | |
| Relinquished by: | | | | | | |

Special Instructions: TPH EXTENDED needed.

Laboratory Comments:
Sample Containers Intact? N
VOCs Free of Headspace? N
Labels on container(s)? X
Custody seals on cooler(s)? Y
Custody seals on container(s)? Y
Sample Hand Delivered by Sampler/Clerk Rep.? Y
by Courier? UPS DHL FedEx Lone Star



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

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

Received: 08/23/2019
Reported: 08/26/2019
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: NOT GIVEN
Project Location: MIMOSA FEDERAL SWD #3Y

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 | Analyzed 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 (PIE) 91.6 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | Analyzed 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 | Analyzed 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 % 37.6-147

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/23/2019
Reported: 08/26/2019
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: NOT GIVEN
Project Location: MIMOSA FEDERAL SWD #3Y

Sampling Date: 08/22/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H2 +3 (H902897-02)

| BTEX 8021B | | | mg/kg | | Analyzed 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 (PIC) 91.8 % 73.3-129

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed 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 | | Analyzed 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 | | | | | |

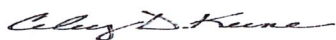
Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/23/2019
Reported: 08/26/2019
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: NOT GIVEN
Project Location: MIMOSA FEDERAL SWD #3Y

Sampling Date: 08/22/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H3 +3 (H902897-03)

| BTEX 8021B | | mg/kg | Analyzed 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 (PII) 90.6 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | Analyzed 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 | Analyzed 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 % 41-142

Surrogate: 1-Chlorooctadecane 115 % 37.6-147

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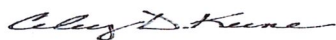
Notes and Definitions

| | |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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