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*Automated Report*

## Technical Report for

**Kerr-McGee Oil & Gas Onshore LP**

**GWA\_Hoy\_Water\_Well**

**FID:705801 Reg:Vol. Freq.:SP**

**SGS Job Number: DA58480**

**Sampling Date: 09/11/23**



### Report to:

**Fulcrum Energy Operating**  
**112 High Street**  
**Buffalo, WY 82834**  
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**ATTN: Tanya Cude**

**Total number of pages in report: 18**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

**Eric Hoffman**

**Client Service contact: Parna Payandeh 303-425-6021**

Certifications: CO (CO00049), NE (NE-OS-06-04), ND (R-027), UT (NELAP CO00049)

LA (LA150028), TX (T104704511), WY (8TMS-L), HI (CO00049), NJ (CO011), NV (CO00049)

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Test results relate only to samples analyzed.

# Table of Contents

-1-

<b>Section 1: Sample Summary .....</b>	<b>3</b>
<b>Section 2: Case Narrative/Conformance Summary .....</b>	<b>4</b>
<b>Section 3: Summary of Hits .....</b>	<b>5</b>
<b>Section 4: Sample Results .....</b>	<b>6</b>
<b>4.1: DA58480-1: BW_HOY_260947_TRIP_BLANK .....</b>	<b>7</b>
<b>Section 5: Misc. Forms .....</b>	<b>9</b>
<b>5.1: Chain of Custody .....</b>	<b>10</b>
<b>Section 6: MS Volatiles - QC Data Summaries .....</b>	<b>13</b>
<b>6.1: Method Blank Summary .....</b>	<b>14</b>
<b>6.2: Blank Spike/Blank Spike Duplicate Summary .....</b>	<b>15</b>
<b>Section 7: GC Volatiles - QC Data Summaries .....</b>	<b>16</b>
<b>7.1: Method Blank Summary .....</b>	<b>17</b>
<b>7.2: Blank Spike/Blank Spike Duplicate Summary .....</b>	<b>18</b>

1

2

3

4

5

6

7



### Sample Summary

Kerr-McGee Oil & Gas Onshore LP

Job No: DA58480

GWA\_Hoy\_Water\_Well

Project No: FID:705801 Reg:Vol. Freq.:SP

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
---------------	----------------	---------	----------	------------------	------------------

This report contains results reported as ND = Not detected. The following applies:  
Organics ND = Not detected above the MDL

DA58480-1	09/11/23	10:27	EF	09/12/23	AQ	Trip Blank Water	BW_HOY_260947_TRIP_BLANK
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## CASE NARRATIVE / CONFORMANCE SUMMARY

**Client:** Kerr-McGee Oil & Gas Onshore LP

**Job No:** DA58480

**Site:** GWA\_Hoy\_Water\_Well

**Report Date** 9/14/2023 1:24:41 AM

On 09/12/2023, 0 sample(s), 1 Trip Blank(s), and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 2.5 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of DA58480 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

### MS Volatiles By Method SW846 8260B

<b>Matrix:</b> AQ	<b>Batch ID:</b> V5V3784
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- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

### GC Volatiles By Method SW846 8015D

<b>Matrix:</b> AQ	<b>Batch ID:</b> GGA2777
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- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

## Summary of Hits

**Job Number:** DA58480  
**Account:** Kerr-McGee Oil & Gas Onshore LP  
**Project:** GWA\_Hoy\_Water\_Well  
**Collected:** 09/11/23



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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DA58480-1      BW\_HOY\_260947\_TRIP\_BLANK

No hits reported in this sample.

**Sample Results**

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**Report of Analysis**

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## Report of Analysis

<b>Client Sample ID:</b> BW_HOY_260947_TRIP_BLANK	<b>Date Sampled:</b> 09/11/23
<b>Lab Sample ID:</b> DA58480-1	<b>Date Received:</b> 09/12/23
<b>Matrix:</b> AQ - Trip Blank Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B	
<b>Project:</b> GWA_Hoy_Water_Well	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V76811.D	1	09/12/23 23:36	MB	n/a	n/a	V5V3784
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

### Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.60	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	1.0	ug/l	
	m,p-Xylene	ND	1.0	0.96	ug/l	
95-47-6	o-Xylene	ND	1.0	0.60	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		70-130%
17060-07-0	1,2-Dichloroethane-D4	99%		70-130%
2037-26-5	Toluene-D8	102%		70-130%
460-00-4	4-Bromofluorobenzene	111%		70-130%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.1  
4

## Report of Analysis

<b>Client Sample ID:</b> BW_HOY_260947_TRIP_BLANK <b>Lab Sample ID:</b> DA58480-1 <b>Matrix:</b> AQ - Trip Blank Water <b>Method:</b> SW846 8015D <b>Project:</b> GWA_Hoy_Water_Well	<b>Date Sampled:</b> 09/11/23 <b>Date Received:</b> 09/12/23 <b>Percent Solids:</b> n/a
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA62340.D	1	09/12/23 19:27	MB	n/a	n/a	GGA2777
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.050	0.040	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	118%		60-140%		

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.1  
4

**Misc. Forms**

**Custody Documents and Other Forms**

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**Includes the following where applicable:**

- Chain of Custody



CHAIN OF CUSTODY

4036 Youngfield Street, Wheat Ridge, CO 80033
TEL: 303-425-6021 FAX: 303-425-6854
www.acctest.com

Bottle Order Control # FED-EX Tracking #
SGS Quote # SGS Job # DA58480

Client / Reporting Information Project Information Requested Analysis (see TEST CODE sheet) Matrix Codes
Company: (Report to) Absaroka Solutions Project Name: GWA\_Hoy\_Water\_Well Frequency: SP
Street: 112 High Street Regulation: Voluntary Billing Information (if different from Report to)
City, State: Buffalo, WY 82834 Facility ID: 705801 Company: Occidental Petroleum Corporation (OXY)
Project Contact: Tanya Cude EQUIS Facility Code: 0089019-AN-GWABWQ Street Address: 1099 18th Street, Suite 1800
Phone: 352-318-4034 Client Purchase Order #: 4500641679 City, State ZIP Denver, CO 80202-1918
Email: Tanya.Cude@Absarokasolutions.com
Sampler(s) Name(s): Emily Fitzjohn Project Manager: Joel Mason Attention: Erik Mickelson User ID: fvv451
Collection Number of preserved Bottles
Field ID / Point of Collection Date Time Sampled by Matrix # of bottles NONE HCl NH3 HNO3 H2SO4 DI Water METH ENCORE Na2S2O4 Other
BW\_Hoy\_260947\_Trip\_Blank 9/11/2023 10:27 EF TB 3 3
Turnaround Time (Business days) Data Deliverable Information Comments / Special Instructions
Special Reporting Instructions: Report in PPB, Report in PPM, Report MDLs
Commercial "A" (Level 1, Results Only), Commercial "B" (Level 2, Results + QC Summary), COMMBN (Results/QC/Narrative), COMMBN+ [Results/QC/Narrative (+ chromatograms)], REDT2, FULT1, EDD Format: COGCC Compatible
Sample Custody must be documented below each time samples change possession, including courier delivery.
Relinquished by Sampler: Date/Time: 9/11/23 18:00 Received By: Date/Time: 9/11/23 17:13
Custody Seal # Intact [X] Not intact [ ] Absent [ ] Preserved where applicable [ ] Cooler Temp. "C": 2.5 Therm. ID: FVW On Ice [X]
Form MSGA 064-01, RV 6/19/17 http://www.sgs.com/terms-and-conditions

5.1 5

## SGS Sample Receipt Summary

Job Number: DA58480

Client: ABSAROKA

Project: GWA

Date / Time Received: 9/12/2023 1:00:00 PM

Delivery Method: co

Airbill #s: \_\_\_\_\_

Cooler Temps (Initial/Adjusted): #1: (2.5/2.5):

**Cooler Security**

Y or N

Y or N

- |                           |                                     |                          |                       |                                     |                          |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present:       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact:  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**Cooler Temperature**

Y or N

- |                            |                                     |                          |
|----------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Thermometer ID:         | <u>IR Gun;</u>                      |                          |
| 3. Cooler media:           | <u>Ice (Bag)</u>                    |                          |
| 4. No. Coolers:            | <u>1</u>                            |                          |

**Quality Control Preservation**

Y or N N/A

- |                                 |                                     |                          |                          |
|---------------------------------|-------------------------------------|--------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC:    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly:  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                          |
| 4. VOCs headspace free:         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Comments

**Sample Integrity - Documentation**

Y or N

- |  |                                     |                          |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles:   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete:        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**Sample Integrity - Condition**

Y or N

- |                                  |                                     |                          |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT:       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample:          | <u>Intact</u>                       |                          |

**Sample Integrity - Instructions**

Y or N N/A

- |   |                                     |                                     |                                     |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear:           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 2. Bottles received for unspecified tests | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                                     |
| 3. Sufficient volume recvd for analysis:  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 4. Compositing instructions clear:        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear:          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

5.1  
5

DA58480: Chain of Custody

Page 2 of 3

## Problem Resolution

Page 2 of 2

Job Number: DA58480

CSR: \_\_\_\_\_

Response Date: \_\_\_\_\_

Response:

5.1

5

DA58480: Chain of Custody  
Page 3 of 3

## MS Volatiles

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## QC Data Summaries

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**Includes the following where applicable:**

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

# Method Blank Summary

**Job Number:** DA58480  
**Account:** ANADACOD Kerr-McGee Oil & Gas Onshore LP  
**Project:** GWA\_Hoy\_Water\_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V3784-MB	5V76793.D	1	09/12/23	MB	n/a	n/a	V5V3784

The QC reported here applies to the following samples:

Method: SW846 8260B

DA58480-1

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.60	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	1.0	0.96	ug/l	
95-47-6	o-Xylene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Results	Limits
1868-53-7	Dibromofluoromethane	96%	70-130%
17060-07-0	1,2-Dichloroethane-D4	97%	70-130%
2037-26-5	Toluene-D8	100%	70-130%
460-00-4	4-Bromofluorobenzene	106%	70-130%

# Blank Spike/Blank Spike Duplicate Summary

Job Number: DA58480  
 Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP  
 Project: GWA\_Hoy\_Water\_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V3784-BS	5V76790A.D	1	09/12/23	MB	n/a	n/a	V5V3784
V5V3784-BSD	5V76791.D	1	09/12/23	MB	n/a	n/a	V5V3784

The QC reported here applies to the following samples:

Method: SW846 8260B

DA58480-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	50	50.3	101	49.8	100	1	70-130/30
100-41-4	Ethylbenzene	50	52.3	105	51.7	103	1	70-130/30
108-88-3	Toluene	50	50.2	100	49.6	99	1	70-130/30
	m,p-Xylene	100	107	107	107	107	0	70-130/30
95-47-6	o-Xylene	50	52.2	104	52.1	104	0	70-130/30
1330-20-7	Xylene (total)	150	159	106	159	106	0	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	94%	96%	70-130%
17060-07-0	1,2-Dichloroethane-D4	98%	99%	70-130%
2037-26-5	Toluene-D8	98%	98%	70-130%
460-00-4	4-Bromofluorobenzene	94%	95%	70-130%

\* = Outside of Control Limits.

## GC Volatiles

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## QC Data Summaries

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**Includes the following where applicable:**

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

# Method Blank Summary

Job Number: DA58480  
Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP  
Project: GWA\_Hoy\_Water\_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA2777-MB	GA62337.D	1	09/12/23	MB	n/a	n/a	GGA2777

The QC reported here applies to the following samples:

Method: SW846 8015D

DA58480-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.050	0.040	mg/l	

CAS No.	Surrogate Recoveries	Limits
120-82-1	1,2,4-Trichlorobenzene	123% 60-140%

7.1.1  
7

# Blank Spike/Blank Spike Duplicate Summary

Job Number: DA58480  
 Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP  
 Project: GWA\_Hoy\_Water\_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA2777-BS	GA62334.D	1	09/12/23	MB	n/a	n/a	GGA2777
GGA2777-BSD	GA62335.D	1	09/12/23	MB	n/a	n/a	GGA2777

The QC reported here applies to the following samples:

Method: SW846 8015D

DA58480-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	2.2	1.80	82	1.79	81	1	64-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
120-82-1	1,2,4-Trichlorobenzene	126%	127%	60-140%

\* = Outside of Control Limits.

7.2.1  
7