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*Automated Report*

## Technical Report for

### Occidental Petroleum Corporation

Kerr-McGee:GWA\_Fern\_Pad

FID-753868-Reg-VOL-Freq.IN

SGS Job Number: DA71403

Sampling Date: 03/24/25

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ATTN: Distribution6

Total number of pages in report: 19



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.

A handwritten signature in black ink, appearing to read "Eric Hoffman".

Eric Hoffman

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

Certifications: CO (CO00049), ND (R-027), UT (NELAP CO00049), LA (LA150028), TX (T104704511), WY (8TMS-L) HI (CO00049), NJ (CO011), NV (CO00049), AK (CO00049), CA (3076), and NC (08701)

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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: DA71403-1: BW_BEARSON_158040_TRIP_BLANK</b> .....	7
<b>Section 5: Misc. Forms</b> .....	<b>9</b>
<b>5.1: Chain of Custody</b> .....	10
<b>Section 6: MS Volatiles - QC Data Summaries</b> .....	<b>12</b>
<b>6.1: Method Blank Summary</b> .....	13
<b>6.2: Blank Spike Summary</b> .....	14
<b>6.3: Matrix Spike/Matrix Spike Duplicate Summary</b> .....	15
<b>Section 7: GC Volatiles - QC Data Summaries</b> .....	<b>16</b>
<b>7.1: Method Blank Summary</b> .....	17
<b>7.2: Blank Spike Summary</b> .....	18
<b>7.3: Matrix Spike/Matrix Spike Duplicate Summary</b> .....	19

1

2

3

4

5

6

7



## Sample Summary

Occidental Petroleum Corporation

Job No: DA71403

Kerr-McGee:GWA\_Fern\_Pad

Project No: FID-753868-Reg-VOL-Freq.IN

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:

Organics ND = Not detected above the MDL

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DA71403-1	03/24/25	10:28	AL	03/25/25	AQ	Trip Blank Water	BW_BEARSON_158040_TRIP_BLANK
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## CASE NARRATIVE / CONFORMANCE SUMMARY

**Client:** Occidental Petroleum Corporation

**Job No:** DA71403

**Site:** Kerr-McGee:GWA\_Fern\_Pad

**Report Date** 4/7/2025 7:21:23 AM

On 03/25/2025, 0 sample(s), 1 Trip Blank(s), 0 Equip. Blanks and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 4.1 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of DA71403 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> V5V4332
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- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA71431-1MS, DA71431-1MSD were used as the QC samples indicated.

### GC Volatiles By Method SW846 8015C

<b>Matrix:</b> AQ	<b>Batch ID:</b> GGA3024
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- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA71445-10MS, DA71445-10MSD were used as the QC samples indicated.

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:** DA71403  
**Account:** Occidental Petroleum Corporation  
**Project:** Kerr-McGee:GWA\_Fern\_Pad  
**Collected:** 03/24/25



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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DA71403-1      BW\_BEARSON\_158040\_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_BEARSON_158040_TRIP_BLANK <b>Lab Sample ID:</b> DA71403-1 <b>Matrix:</b> AQ - Trip Blank Water <b>Method:</b> SW846 8260B <b>Project:</b> Kerr-McGee:GWA_Fern_Pad	<b>Date Sampled:</b> 03/24/25 <b>Date Received:</b> 03/25/25 <b>Percent Solids:</b> n/a
---	---

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V89231.D	1	04/01/25 11:50	MB	n/a	n/a	V5V4332
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	105%		70-130%
17060-07-0	1,2-Dichloroethane-D4	103%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	103%		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_BEARSON_158040_TRIP_BLANK <b>Lab Sample ID:</b> DA71403-1 <b>Matrix:</b> AQ - Trip Blank Water <b>Method:</b> SW846 8015C <b>Project:</b> Kerr-McGee:GWA_Fern_Pad	<b>Date Sampled:</b> 03/24/25 <b>Date Received:</b> 03/25/25 <b>Percent Solids:</b> n/a
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA69272.D	1	04/02/25 06:31	MB	n/a	n/a	GGA3024
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	101%		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  
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**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 # DA71403

Client / Reporting Information
Project Information
Requested Analysis (see TEST CODE sheet)
Matrix Codes
Collection table with columns for Field ID, Date, Time, Matrix, # of bottles, and various chemical analysis codes. Includes Turnaround Time and Data Deliverable Information sections.

5.1
5



## SGS Sample Receipt Summary

Job Number: da71403

Client: ABSAROKA

Project: GWA

Date / Time Received: 3/25/2025 12:30:00 PM

Delivery Method: co

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

Cooler Temps (Raw Measured) °C: Cooler 1: (4.1);

Cooler Temps (Corrected) °C: Cooler 1: (4.1);

**Cooler Informatio**

Y or N

- 1. Custody Seals Present:
- 2. Custody Seals Intact:
- 3. Temp criteria achieved:
- 4. Cooler temp verification:  IR Gun
- 5. Cooler media:  Ice (Bag)

**Trip Blank Information**

Y or N N/A

- 1. Trip Blank present / cooler:
- 2. Trip Blank listed on COC:

W or S N/A

- 3. Type of TB Received

**Sample Information**

Y or N N/A

- 1. Sample labels present on bottles:
- 2. Samples presented properly:
- 3. Sufficient volume/containers recv'd for analysi:
- 4. Condition of sample:  Intact
- 5. Sample recv'd within HT:
- 6. Dates/Times/IDs on COC match sample labe:
- 7. VOCs have headspace:
- 8. Bottles received for unspecified tests:
- 9. Compositing instructions clear:
- 10. Voa Soil Kits/Jars received past 48hrs?:
- 11. % Solids Jar Received?:
- 12. Residual Chlorine Present?:

**Misc Information**

Number of Encores: 25 Gram  5 Gram

Number of Lab Filtered Metals

Test Strip Lot #: pH 0-3: \_\_\_\_\_

pH 10-12: \_\_\_\_\_ Other: (Specify) \_\_\_\_\_

Residual Chlorine Test Strip Lot: \_\_\_\_\_

Comments

SM001

Rev. Date 05/04/17

Technician: JEREMYD

Date: 3/25/2025 1:00:22 PM

Reviewer: \_\_\_\_\_

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

DA71403: Chain of Custody

Page 2 of 2

5.1  
5

## 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: DA71403  
 Account: ANADACOD Occidental Petroleum Corporation  
 Project: Kerr-McGee:GWA\_Fern\_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V4332-MB	5V89212.D	1	04/01/25	MB	n/a	n/a	V5V4332

The QC reported here applies to the following samples:

Method: SW846 8260B

DA71403-1

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	Limits
1868-53-7	Dibromofluoromethane	102% 70-130%
17060-07-0	1,2-Dichloroethane-D4	102% 70-130%
2037-26-5	Toluene-D8	99% 70-130%
460-00-4	4-Bromofluorobenzene	101% 70-130%

6.1.1  
6

# Blank Spike Summary

Job Number: DA71403  
 Account: ANADACOD Occidental Petroleum Corporation  
 Project: Kerr-McGee:GWA\_Fern\_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V4332-BS	5V89210.D	1	04/01/25	MB	n/a	n/a	V5V4332

The QC reported here applies to the following samples:

Method: SW846 8260B

DA71403-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	49.5	99	70-130
100-41-4	Ethylbenzene	50	48.3	97	70-130
108-88-3	Toluene	50	47.9	96	70-130
	m,p-Xylene	100	95.5	96	70-130
95-47-6	o-Xylene	50	48.0	96	70-130
1330-20-7	Xylene (total)	150	144	96	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	70-130%
17060-07-0	1,2-Dichloroethane-D4	101%	70-130%
2037-26-5	Toluene-D8	98%	70-130%
460-00-4	4-Bromofluorobenzene	102%	70-130%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA71403  
 Account: ANADACOD Occidental Petroleum Corporation  
 Project: Kerr-McGee:GWA\_Fern\_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA71431-1MS	5V89226.D	25	04/01/25	MB	n/a	n/a	V5V4332
DA71431-1MSD	5V89227.D	25	04/01/25	MB	n/a	n/a	V5V4332
DA71431-1	5V89225.D	25	04/01/25	MB	n/a	n/a	V5V4332

The QC reported here applies to the following samples:

Method: SW846 8260B

DA71403-1

CAS No.	Compound	DA71431-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1110	1250	2370	101	1250	2350	99	1	70-130/30
100-41-4	Ethylbenzene	129	1250	1320	95	1250	1330	96	1	70-130/30
108-88-3	Toluene	1230	1250	2430	96	1250	2440	97	0	70-130/30
	m,p-Xylene	438	2500	2760	93	2500	2770	93	0	70-130/30
95-47-6	o-Xylene	199	1250	1370	94	1250	1380	94	1	70-130/30
1330-20-7	Xylene (total)	637	3750	4140	93	3750	4150	94	0	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	DA71431-1	Limits
1868-53-7	Dibromofluoromethane	105%	104%	105%	70-130%
17060-07-0	1,2-Dichloroethane-D4	100%	103%	103%	70-130%
2037-26-5	Toluene-D8	98%	98%	100%	70-130%
460-00-4	4-Bromofluorobenzene	102%	102%	101%	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:** DA71403  
**Account:** ANADACOD Occidental Petroleum Corporation  
**Project:** Kerr-McGee:GWA\_Fern\_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA3024-MB	GA69271.D	1	04/02/25	MB	n/a	n/a	GGA3024

The QC reported here applies to the following samples:

Method: SW846 8015C

DA71403-1

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	101% 60-140%

7.1.1  
7

# Blank Spike Summary

Job Number: DA71403  
 Account: ANADACOD Occidental Petroleum Corporation  
 Project: Kerr-McGee:GWA\_Fern\_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA3024-BS	GA69269.D	1	04/02/25	MB	n/a	n/a	GGA3024

The QC reported here applies to the following samples:

Method: SW846 8015C

DA71403-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	2.2	1.71	78	64-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	106%	60-140%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA71403  
 Account: ANADACOD Occidental Petroleum Corporation  
 Project: Kerr-McGee:GWA\_Fern\_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA71445-10MS	GA69281.D	1	04/02/25	MB	n/a	n/a	GGA3024
DA71445-10MSD	GA69282.D	1	04/02/25	MB	n/a	n/a	GGA3024
DA71445-10	GA69280.D	1	04/02/25	MB	n/a	n/a	GGA3024

The QC reported here applies to the following samples:

Method: SW846 8015C

DA71403-1

CAS No.	Compound	DA71445-10 Spike		MS	MS	Spike	MSD	MSD	RPD	Limits
		mg/l	Q mg/l	mg/l	%	mg/l	mg/l	%		Rec/RPD
	TPH-GRO (C6-C10)	ND	2.2	1.66	75	2.2	1.64	75	1	56-130/30

CAS No.	Surrogate Recoveries	MS	MSD	DA71445-10 Limits
120-82-1	1,2,4-Trichlorobenzene	106%	107%	102% 60-140%

\* = Outside of Control Limits.

7.3.1  
7