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*Automated Report*

## Technical Report for

### Occidental Petroleum Corporation

Kerr-McGee: GWA\_Rademacher\_14\_30HZ

FID:761579 Reg:Vol. Freq.:IN

SGS Job Number: DA63364

Sampling Date: 04/01/24



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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.

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.

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## Sample Summary

**Occidental Petroleum Corporation**

**Job No: DA63364**

**Kerr-McGee: GWA\_Rademacher\_14\_30HZ**  
**Project No: FID:761579 Reg:Vol. Freq.:IN**

| 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**

|           |          |       |    |          |    |                  |                                   |
|-----------|----------|-------|----|----------|----|------------------|-----------------------------------|
| DA63364-1 | 04/01/24 | 11:00 | EF | 04/02/24 | AQ | Trip Blank Water | BW_DOBINSKY_107099_TRIP_BLA<br>NK |
|-----------|----------|-------|----|----------|----|------------------|-----------------------------------|

## CASE NARRATIVE / CONFORMANCE SUMMARY

**Client:** Occidental Petroleum Corporation

**Job No:** DA63364

**Site:** Kerr-McGee: GWA\_Rademacher\_14\_30HZ

**Report Date** 4/8/2024 6:30:29 AM

On 04/02/2024, 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 2.5 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of DA63364 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> V6V2382 |
|-------------------|--------------------------|

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA62756-31MS, DA62756-31MSD were used as the QC samples indicated.

### GC Volatiles By Method SW846 8015D

|                   |                          |
|-------------------|--------------------------|
| <b>Matrix:</b> AQ | <b>Batch ID:</b> GGA2859 |
|-------------------|--------------------------|

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA62756-32MS, DA62756-32MSD 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:** DA63364  
**Account:** Occidental Petroleum Corporation  
**Project:** Kerr-McGee: GWA\_Rademacher\_14\_30HZ  
**Collected:** 04/01/24



| Lab Sample ID | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

DA63364-1      BW\_DOBINSKY\_107099\_TRIP\_BLANK

No hits reported in this sample.

**Sample Results**

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**Report of Analysis**

---

## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> BW_DOBINSKY_107099_TRIP_BLANK | <b>Date Sampled:</b> 04/01/24  |
| <b>Lab Sample ID:</b> DA63364-1                        | <b>Date Received:</b> 04/02/24 |
| <b>Matrix:</b> AQ - Trip Blank Water                   | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                             |                                |
| <b>Project:</b> Kerr-McGee: GWA_Rademacher_14_30HZ     |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 6V47249.D | 1  | 04/03/24 15:54 | MB | n/a       | n/a        | V6V2382          |
| 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  | 98%    |        | 70-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101%   |        | 70-130% |
| 2037-26-5  | Toluene-D8            | 103%   |        | 70-130% |
| 460-00-4   | 4-Bromofluorobenzene  | 101%   |        | 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

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## Report of Analysis

|   |   |
|---|---|
| <b>Client Sample ID:</b> BW_DOBINSKY_107099_TRIP_BLANK<br><b>Lab Sample ID:</b> DA63364-1<br><b>Matrix:</b> AQ - Trip Blank Water<br><b>Method:</b> SW846 8015D<br><b>Project:</b> Kerr-McGee: GWA_Rademacher_14_30HZ | <b>Date Sampled:</b> 04/01/24<br><b>Date Received:</b> 04/02/24<br><b>Percent Solids:</b> n/a |
|---|---|

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | GA64660.D | 1  | 04/03/24 18:20 | JC | n/a       | n/a        | GGA2859          |
| 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 | 114%   |        | 60-140% |       |   |

---

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

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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.accutest.com

Bottle Order Control # FED-EX Tracking #
SGS Quote # SGS Job # DA63364

Client / Reporting Information, Project Information, Requested Analysis (see TEST CODE sheet), Matrix Codes, Collection table, Data Deliverable Information, Comments / Special Instructions, Sample Custody must be documented below each time samples change possession, including courier delivery.

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DA63364: Chain of Custody

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## SGS Sample Receipt Summary

Job Number: da63364

Client: ABSAOKA

Project: GWA

Date / Time Received: 4/2/2024 12:00:00 PM

Delivery Method: co

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

Cooler Temps (Raw Measured) °C: Cooler 1: (2.5);

Cooler Temps (Corrected) °C: Cooler 1: (2.5);

**Cooler Information**

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 analysis:
- 4. Condition of sample: Intact
- 5. Sample recv'd within HT:
- 6. Dates/Times/IDs on COC match sample label:
- 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: 4/2/2024 12:25:48 PM

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

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

DA63364: Chain of Custody

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## 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: DA63364  
 Account: ANADACOD Occidental Petroleum Corporation  
 Project: Kerr-McGee: GWA\_Rademacher\_14\_30HZ

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V6V2382-MB | 6V47245.D | 1  | 04/03/24 | MB | n/a       | n/a        | V6V2382          |

The QC reported here applies to the following samples:

Method: SW846 8260B

DA63364-1

| 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            | 103% 70-130% |
| 460-00-4   | 4-Bromofluorobenzene  | 102% 70-130% |

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# Blank Spike Summary

Job Number: DA63364  
 Account: ANADACOD Occidental Petroleum Corporation  
 Project: Kerr-McGee: GWA\_Rademacher\_14\_30HZ

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V6V2382-BS | 6V47243.D | 1  | 04/03/24 | MB | n/a       | n/a        | V6V2382          |

The QC reported here applies to the following samples:

Method: SW846 8260B

DA63364-1

| CAS No.   | Compound       | Spike<br>ug/l | BSP<br>ug/l | BSP<br>% | Limits |
|-----------|----------------|---------------|-------------|----------|--------|
| 71-43-2   | Benzene        | 50            | 48.2        | 96       | 70-130 |
| 100-41-4  | Ethylbenzene   | 50            | 51.9        | 104      | 70-130 |
| 108-88-3  | Toluene        | 50            | 46.4        | 93       | 70-130 |
|           | m,p-Xylene     | 100           | 100         | 100      | 70-130 |
| 95-47-6   | o-Xylene       | 50            | 51.8        | 104      | 70-130 |
| 1330-20-7 | Xylene (total) | 150           | 152         | 101      | 70-130 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 98%  | 70-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102% | 70-130% |
| 2037-26-5  | Toluene-D8            | 102% | 70-130% |
| 460-00-4   | 4-Bromofluorobenzene  | 100% | 70-130% |

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA63364  
 Account: ANADACOD Occidental Petroleum Corporation  
 Project: Kerr-McGee: GWA\_Rademacher\_14\_30HZ

| Sample        | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------|-----------|----|----------|----|-----------|------------|------------------|
| DA62756-31MS  | 6V47246.D | 1  | 04/03/24 | MB | n/a       | n/a        | V6V2382          |
| DA62756-31MSD | 6V47247.D | 1  | 04/03/24 | MB | n/a       | n/a        | V6V2382          |
| DA62756-31    | 6V47248.D | 1  | 04/03/24 | MB | n/a       | n/a        | V6V2382          |

The QC reported here applies to the following samples:

Method: SW846 8260B

DA63364-1

| CAS No.   | Compound       | DA62756-31 Spike |     | MS   | MS   | Spike | MSD  | MSD  | RPD | Limits    |
|-----------|----------------|------------------|-----|------|------|-------|------|------|-----|-----------|
|           |                | ug/l             | Q   | ug/l | ug/l | %     | ug/l | ug/l |     | %         |
| 71-43-2   | Benzene        | ND               | 50  | 48.3 | 97   | 50    | 48.2 | 96   | 0   | 70-130/30 |
| 100-41-4  | Ethylbenzene   | ND               | 50  | 51.4 | 103  | 50    | 51.8 | 104  | 1   | 70-130/30 |
| 108-88-3  | Toluene        | ND               | 50  | 45.9 | 92   | 50    | 46.0 | 92   | 0   | 70-130/30 |
|           | m,p-Xylene     | ND               | 100 | 100  | 100  | 100   | 101  | 101  | 1   | 70-130/30 |
| 95-47-6   | o-Xylene       | ND               | 50  | 51.5 | 103  | 50    | 52.0 | 104  | 1   | 70-130/30 |
| 1330-20-7 | Xylene (total) | ND               | 150 | 152  | 101  | 150   | 153  | 102  | 1   | 70-130/30 |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | DA62756-31 Limits |         |
|------------|-----------------------|------|------|-------------------|---------|
| 1868-53-7  | Dibromofluoromethane  | 99%  | 97%  | 100%              | 70-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% | 102% | 101%              | 70-130% |
| 2037-26-5  | Toluene-D8            | 101% | 102% | 103%              | 70-130% |
| 460-00-4   | 4-Bromofluorobenzene  | 99%  | 101% | 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: DA63364  
Account: ANADACOD Occidental Petroleum Corporation  
Project: Kerr-McGee: GWA\_Rademacher\_14\_30HZ

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| GGA2859-MB | GA64656.D | 1  | 04/03/24 | JC | n/a       | n/a        | GGA2859          |

The QC reported here applies to the following samples:

Method: SW846 8015D

DA63364-1

| 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 | 117% 60-140% |

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# Blank Spike Summary

Job Number: DA63364  
Account: ANADACOD Occidental Petroleum Corporation  
Project: Kerr-McGee: GWA\_Rademacher\_14\_30HZ

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| GGA2859-BS | GA64654.D | 1  | 04/03/24 | JC | n/a       | n/a        | GGA2859          |

The QC reported here applies to the following samples:

Method: SW846 8015D

DA63364-1

| CAS No. | Compound         | Spike<br>mg/l | BSP<br>mg/l | BSP<br>% | Limits |
|---------|------------------|---------------|-------------|----------|--------|
|         | TPH-GRO (C6-C10) | 2.2           | 2.13        | 97       | 64-130 |

| CAS No.  | Surrogate Recoveries   | BSP  | Limits  |
|----------|------------------------|------|---------|
| 120-82-1 | 1,2,4-Trichlorobenzene | 117% | 60-140% |

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA63364  
 Account: ANADACOD Occidental Petroleum Corporation  
 Project: Kerr-McGee: GWA\_Rademacher\_14\_30HZ

| Sample        | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------|-----------|----|----------|----|-----------|------------|------------------|
| DA62756-32MS  | GA64657.D | 1  | 04/03/24 | JC | n/a       | n/a        | GGA2859          |
| DA62756-32MSD | GA64658.D | 1  | 04/03/24 | JC | n/a       | n/a        | GGA2859          |
| DA62756-32    | GA64659.D | 1  | 04/03/24 | JC | n/a       | n/a        | GGA2859          |

The QC reported here applies to the following samples:

Method: SW846 8015D

DA63364-1

| CAS No. | Compound         | DA62756-32 Spike<br>mg/l | MS<br>Q | MS<br>mg/l | MS<br>% | Spike<br>mg/l | MSD<br>mg/l | MSD<br>% | RPD | Limits<br>Rec/RPD |
|---------|------------------|--------------------------|---------|------------|---------|---------------|-------------|----------|-----|-------------------|
|         | TPH-GRO (C6-C10) | ND                       | 2.2     | 2.04       | 93      | 2.2           | 2.06        | 94       | 1   | 49-130/30         |

| CAS No.  | Surrogate Recoveries   | MS   | MSD  | DA62756-32 Limits |
|----------|------------------------|------|------|-------------------|
| 120-82-1 | 1,2,4-Trichlorobenzene | 118% | 118% | 113% 60-140%      |

\* = Outside of Control Limits.

7.3.1  
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