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Automated Report

Technical Report for

Occidental Petroleum Corporation

Kerr-McGee:GWA_Fern_Pad

FID. 705753 - Reg. VOL - Feq. IN

SGS Job Number: DA71905

Sampling Date: 04/21/25

Report to:

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ATTN: Distribution6

Total number of pages in report: 44

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)

Sections: 1 2 3 4 5 6 7 8 9 10

Table of Contents

Sample Summary

Occidental Petroleum Corporation

Job No: DA71905

Kerr-McGee:GWA_Fern_Pad
Project No: FID. 705753 - Reg. VOL - Feq. 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							
DA71905-1	04/21/25	10:31	AI	04/22/25	AQ	Ground Water	BW_BRUGGER_203928 SENW_12_2N_67W
DA71905-1A	04/21/25	10:31	AI	04/22/25	AQ	Ground Water	BW_BRUGGER_203928 SENW_12_2N_67W
DA71905-1B	04/21/25	10:31	AI	04/22/25	AQ	Ground Water	BW_BRUGGER_203928 SENW_12_2N_67W
DA71905-1F	04/21/25	10:31	AI	04/22/25	AQ	Groundwater Filtered	BW_BRUGGER_203928 SENW_12_2N_67W

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Occidental Petroleum Corporation **Job No:** DA71905

Site: Kerr-McGee:GWA_Fern_Pad **Report Date** 6/23/2025 3:45:55 AM

On 04/22/2025, 1 sample(s), 0 Trip Blank(s), 0 Equip. Blanks and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 3.3 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of DA71905 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

Matrix: AQ **Batch ID:** V5V4353

- All samples were analyzed within the recommended method holding time.
- Sample(s) DA71861-1MS, DA71861-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

GC Volatiles By Method RSK175 MOD

Matrix: AQ **Batch ID:** GFK419

- All samples were analyzed within the recommended method holding time.
- Sample(s) DA71905-1AMS, DA71905-1AMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- DA71905-1A: The pH of the sample was >2 at time of analysis. Bottles marked as preserved.

GC Volatiles By Method SW846 8015C

Matrix: AQ **Batch ID:** GGA3035

- All samples were analyzed within the recommended method holding time.
- Sample(s) DA71791-12MS, DA71791-12MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

GC/LC Semi-volatiles By Method SW846 8015C

Matrix: AQ **Batch ID:** OP27549

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) DA71930-1MS, DA71930-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Metals Analysis By Method EPA 200.8

Matrix: AQ **Batch ID:** MP41150

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA71949-1FAMS, DA71949-1FAMSD were used as the QC samples for the metals analysis.
- The matrix spike (MS) and matrix spike duplicate (MSD) recovery(s) of Calcium, Sodium, Strontium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

General Chemistry By Method EPA 300.0

Matrix: AQ **Batch ID:** GP38485

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA71905-1MS, DA71905-1MSD were used as the QC samples for the Bromide, Chloride, Fluoride, Nitrogen, Nitrate, Nitrogen, Nitrite, Sulfate, Bromide analysis.

Matrix: AQ **Batch ID:** R65339

- The data for EPA 300.0 meets quality control requirements.
- DA71905-1 for Nitrogen, Nitrate + Nitrite: Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

General Chemistry By Method EPA 365.1

Matrix: AQ **Batch ID:** GP38501

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA71696-1DUP, DA71842-1MS were used as the QC samples for the Phosphorus, Total analysis.

General Chemistry By Method HACH IRB-BART-NOCERT

Matrix: AQ **Batch ID:** MB1842

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA71760-1BDUP were used as the QC samples for the Iron-Related Bacteria analysis.
- DA71905-1B for Iron-Related Bacteria: Certification for this test is not offered.
- MB1842-MB for Iron-Related Bacteria: Certification for this test is not offered.

General Chemistry By Method HC SLYM-BART-NO CERT

Matrix: AQ **Batch ID:** MB1844

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA71760-1BDUP were used as the QC samples for the Slime Forming Bacteria analysis.
- DA71905-1B for Slime Forming Bacteria: Certification for this test is not offered.
- MB1844-MB for Slime Forming Bacteria: Certification for this test is not offered.

General Chemistry By Method HC SRB-BART-NO CERT

Matrix: AQ **Batch ID:** MB1847

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA71760-1BDUP were used as the QC samples for the Sulfate Reducing Bacteria analysis.
- DA71905-1B for Sulfate Reducing Bacteria: Certification for this test is not offered.
- MB1847-MB for Sulfate Reducing Bacteria: Certification for this test is not offered.

General Chemistry By Method SM 2320B-2011

Matrix: AQ **Batch ID:** GN66698

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix: AQ **Batch ID:** GN66699

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix: AQ **Batch ID:** GN66700

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM 2510B-2011

Matrix: AQ **Batch ID:** GP38516

- Sample(s) DA71987-1DUP were used as the QC samples for the Specific Conductivity analysis.

General Chemistry By Method SM 2540C-2011

Matrix: AQ **Batch ID:** GN66711

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA71930-1DUP were used as the QC samples for the Solids, Total Dissolved analysis.

General Chemistry By Method SM1030E-2011

Matrix: AQ **Batch ID:** GN67448

- The data for SM1030E-2011 meets quality control requirements.

General Chemistry By Method SM4500HB+-2011/9040C

Matrix: AQ **Batch ID:** GN66751

- The data for SM4500HB+-2011/9040C meets quality control requirements.
- The following samples were run outside of holding time for method SM4500HB+-2011/9040C: DA71905-1 Analysis performed past recommended hold time.

Field Data By Method FIELD

Matrix: AQ **Batch ID:** R65321

- The data for FIELD meets quality control requirements.

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: DA71905
Account: Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad
Collected: 04/21/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
DA71905-1	**BW_BRUGGER_203928 SENW_12_2N_67W**					
Fluoride		2.0	0.20		mg/l	EPA 300.0
Chloride		56.7	5.0		mg/l	EPA 300.0
Bromide		0.61	0.10		mg/l	EPA 300.0
Sulfate		5.1	1.0		mg/l	EPA 300.0
Alkalinity, Bicarbonate as CaCO3		535	5.0		mg/l	SM 2320B-2011
Alkalinity, Carbonate		17.1	5.0		mg/l	SM 2320B-2011
Alkalinity, Total as CaCO3		552	5.0		mg/l	SM 2320B-2011
Cation Anion Balance		0.17			%	SM1030E-2011
Phosphorus, Total		0.034	0.010		mg/l	EPA 365.1
Solids, Total Dissolved		652	10		mg/l	SM 2540C-2011
Specific Conductivity		1190	1.0		umhos/cm	SM 2510B-2011
pH [a]		8.63			su	SM4500HB + -2011/9040C
Specific Conductivity (Field)		1060.7	0.50		umhos/cm	FIELD
pH (Field)		8.68			su	FIELD
Temperature (Field)		16.5			Deg. C	FIELD
Oxygen, Dissolved (Field)		0.11			mg/l	FIELD
Turbidity		0.02			NTU	FIELD
DA71905-1A	**BW_BRUGGER_203928 SENW_12_2N_67W**					
Methane [b]		3.35	0.0080	0.0070	mg/l	RSK175 MOD
DA71905-1B	**BW_BRUGGER_203928 SENW_12_2N_67W**					
Iron-Related Bacteria [c]		< 25	25		CFU/ml	HACH IRB-BART-NOCERT
Slime Forming Bacteria [c]		< 500	500		CFU/ml	HC SLYM-BART-NO CERT
Sulfate Reducing Bacteria [c]		< 200	200		CFU/ml	HC SRB-BART-NO CERT
DA71905-1F	**BW_BRUGGER_203928 SENW_12_2N_67W**					
Barium		0.0470	0.0020		mg/l	EPA 200.8
Boron		0.232	0.040		mg/l	EPA 200.8
Calcium		2.26	0.40		mg/l	EPA 200.8
Magnesium		0.597	0.10		mg/l	EPA 200.8
Manganese		0.0070	0.0010		mg/l	EPA 200.8
Potassium		1.21	0.20		mg/l	EPA 200.8
Sodium		292	25		mg/l	EPA 200.8
Strontium		0.0722	0.020		mg/l	EPA 200.8

(a) Analysis performed past recommended hold time.
(b) The pH of the sample was > 2 at time of analysis. Bottles marked as preserved.
(c) Certification for this test is not offered.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	BW_BRUGGER_203928 SENW_12_2N_67W		
Lab Sample ID:	DA71905-1	**Date Sampled:**	04/21/25
Matrix:	AQ - Ground Water	**Date Received:**	04/22/25
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Kerr-McGee:GWA_Fern_Pad		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V89755.D	1	04/24/25 18:16	MB	n/a	n/a	V5V4353
Run #2							

	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	101%		70-130%
17060-07-0	1,2-Dichloroethane-D4	99%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BW_BRUGGER_203928 SENW_12_2N_67W		
Lab Sample ID:	DA71905-1	**Date Sampled:**	04/21/25
Matrix:	AQ - Ground Water	**Date Received:**	04/22/25
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Kerr-McGee:GWA_Fern_Pad		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA69578.D	1	04/23/25 20:49	MB	n/a	n/a	GGA3035
Run #2							

	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	99%		60-140%

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

Report of Analysis

Client Sample ID:	BW_BRUGGER_203928 SENW_12_2N_67W		
Lab Sample ID:	DA71905-1	**Date Sampled:**	04/21/25
Matrix:	AQ - Ground Water	**Date Received:**	04/22/25
Method:	SW846 8015C SW846 3511	**Percent Solids:**	n/a
Project:	Kerr-McGee:GWA_Fern_Pad		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FP079753.D	1	04/24/25 20:37	JB	04/24/25 10:00	OP27549	GFP186
Run #2							

	Initial Volume	Final Volume
Run #1	57.0 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.18	0.12	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		36-145%

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

Report of Analysis

Client Sample ID:	BW_BRUGGER_203928 SENW_12_2N_67W		
Lab Sample ID:	DA71905-1	**Date Sampled:**	04/21/25
Matrix:	AQ - Ground Water	**Date Received:**	04/22/25
		Percent Solids:	n/a
Project:	Kerr-McGee:GWA_Fern_Pad		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
300.0							
Fluoride	2.0	0.20	mg/l	2	04/22/25 15:06	AM	EPA 300.0
Chloride	56.7	5.0	mg/l	10	04/22/25 14:57	AM	EPA 300.0
Nitrogen, Nitrite	< 0.0080	0.0080	mg/l	2	04/22/25 15:06	AM	EPA 300.0
Bromide	0.61	0.10	mg/l	2	04/22/25 15:06	AM	EPA 300.0
Nitrogen, Nitrate	< 0.020	0.020	mg/l	2	04/22/25 15:06	AM	EPA 300.0
Sulfate	5.1	1.0	mg/l	2	04/22/25 15:06	AM	EPA 300.0
300.0 NO2 + NO3O							
Nitrogen, Nitrate + Nitrite [a]	< 0.028	0.028	mg/l	1	04/22/25 15:06	AM	EPA 300.0
Alkalinity, Bicarbonate as CaC	535	5.0	mg/l	1	04/23/25 09:10	JW	SM 2320B-2011
Alkalinity, Carbonate	17.1	5.0	mg/l	1	04/23/25 09:10	JW	SM 2320B-2011
Alkalinity, Total as CaCO3	552	5.0	mg/l	1	04/23/25 09:10	JW	SM 2320B-2011
Cation Anion Balance	0.17		%	1	06/19/25	KSS	SM1030E-2011
Phosphorus, Total	0.034	0.010	mg/l	1	04/25/25 12:22	TH	EPA 365.1
Solids, Total Dissolved	652	10	mg/l	1	04/24/25 07:00	JW	SM 2540C-2011
Specific Conductivity	1190	1.0	umhos/cm	1	04/29/25 12:00	JW	SM 2510B-2011
pH [b]	8.63		su	1	04/29/25 09:30	JW	SM4500HB+-2011/9040C
Field Parameters							
Oxygen, Dissolved (Field)	0.11		mg/l	1	04/21/25 10:31	SUB	FIELD
Redox Potential Vs H2	-203.1		mv	1	04/21/25 10:31	SUB	FIELD
Specific Conductivity (Field)	1060.7	0.50	umhos/cm	1	04/21/25 10:31	SUB	FIELD
Temperature (Field)	16.5		Deg. C	1	04/21/25 10:31	SUB	FIELD
Turbidity	0.02		NTU	1	04/21/25 10:31	SUB	FIELD
pH (Field)	8.68		su	1	04/21/25 10:31	SUB	FIELD

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)
(b) Analysis performed past recommended hold time.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BW_BRUGGER_203928 SENW_12_2N_67W		
Lab Sample ID:	DA71905-1A	**Date Sampled:**	04/21/25
Matrix:	AQ - Ground Water	**Date Received:**	04/22/25
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Kerr-McGee:GWA_Fern_Pad		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	FK55873.D	1	04/25/25 14:12	MB	n/a	n/a	GFK419
Run #2 [a]	FK55874.D	10	04/25/25 14:17	MB	n/a	n/a	GFK419

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	39.0 ml	4.0 ml	500 ul	20.8 Deg. C
Run #2	39.0 ml	4.0 ml	500 ul	20.8 Deg. C

Methane, Ethane and Propane

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	3.35 [b]	0.0080	0.0070	mg/l	
74-84-0	Ethane	ND	0.0016	0.0010	mg/l	
74-98-6	Propane	ND	0.0022	0.0017	mg/l	

(a) The pH of the sample was > 2 at time of analysis. Bottles marked as preserved.
(b) Result is from Run# 2

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

Report of Analysis

Client Sample ID:	BW_BRUGGER_203928 SENW_12_2N_67W		
Lab Sample ID:	DA71905-1B	**Date Sampled:**	04/21/25
Matrix:	AQ - Ground Water	**Date Received:**	04/22/25
		Percent Solids:	n/a
Project:	Kerr-McGee:GWA_Fern_Pad		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Not certifiable							
Iron-Related Bacteria [a]	< 25	25	CFU/ml	1	04/29/25	JB	HACH IRB-BART-NOCERT
Slime Forming Bacteria [a]	< 500	500	CFU/ml	1	04/29/25	JB	HC SLYM-BART-NO CERT
Sulfate Reducing Bacteria [a]	< 200	200	CFU/ml	1	04/29/25	JB	HC SRB-BART-NO CERT

(a) Certification for this test is not offered.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BW_BRUGGER_203928 SENW_12_2N_67W		
Lab Sample ID:	DA71905-1F	**Date Sampled:**	04/21/25
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/22/25
		Percent Solids:	n/a
Project:	Kerr-McGee:GWA_Fern_Pad		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Barium	0.0470	0.0020	mg/l	1	05/01/25	05/10/25	CDL	EPA 200.8 [1]	EPA 200.8 [2]
Boron	0.232	0.040	mg/l	1	05/01/25	05/10/25	CDL	EPA 200.8 [1]	EPA 200.8 [2]
Calcium	2.26	0.40	mg/l	1	05/01/25	05/10/25	CDL	EPA 200.8 [1]	EPA 200.8 [2]
Iron	< 0.020	0.020	mg/l	1	05/01/25	05/10/25	CDL	EPA 200.8 [1]	EPA 200.8 [2]
Magnesium	0.597	0.10	mg/l	1	05/01/25	05/10/25	CDL	EPA 200.8 [1]	EPA 200.8 [2]
Manganese	0.0070	0.0010	mg/l	1	05/01/25	05/10/25	CDL	EPA 200.8 [1]	EPA 200.8 [2]
Potassium	1.21	0.20	mg/l	1	05/01/25	05/10/25	CDL	EPA 200.8 [1]	EPA 200.8 [2]
Selenium	< 0.00040	0.00040	mg/l	1	05/01/25	05/10/25	CDL	EPA 200.8 [1]	EPA 200.8 [2]
Sodium	292	25	mg/l	50	05/01/25	05/10/25	CDL	EPA 200.8 [1]	EPA 200.8 [2]
Strontium	0.0722	0.020	mg/l	1	05/01/25	05/10/25	CDL	EPA 200.8 [1]	EPA 200.8 [2]

(1) Instrument QC Batch: MA19082
(2) Prep QC Batch: MP41150

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

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 #: DA71905

Client / Reporting Information

Company: Kerr-McGee Oil and Gas Onshore LP
Street: 1099 18th Street
City, State: Denver, CO 80202
Project Contact: Joel Mason
Phone: 307-262-8975
Email: Joel.Mason@Absarokasolutions.com
Sampler(s) Name(s): AI

Project Information

Project Name: GWA_Fern_Pad
Frequency: IN
Regulation: Voluntary
Facility ID: 705753
EQUIS Facility Code: 0089019-AN-GWABWQ
Client Purchase Order #: Pending
Project Manager: Joel Mason

Billing Information (if different from Report to)

Company: Occidental Petroleum Corporation (OXY)
Street Address: 1201 Lake Robbins Drive
City, State ZIP: The Woodlands, TX 77380
Attention: Erik Mickelson User ID: fvv451

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Field ID / Point of Collection	Collection Date	Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: NONE	HCl	NaOH	HNO3	H2SO4	DI Water	MEOH	ENCORE	Na2S2O3	Other	PH, SCON, TDS	XCARBICALK	BRO, CHL, F, NO2, XNO3O, NO32, SO4	TPO4	Dissolved Metals - Lab Filtered*	VRSK175DGMEP (5 day RUSH)	V8260BTX	B8015DRO	V8015GRO	IRBAC, SFBAC, SO4RBAC	CABAL	LAB USE ONLY
BW_Brugger_203928	4/21/2025	10:31	AI	GW	19	11	6			1					1	X	X	X	X	X	X	X	X	X	X	X	C1
SENW_12_2N_67W																											
Temperature, field	16.5	°C																									
pH, field	8.68	s.u.																									
Specific Conductivity, field	1060.7	uS/cm																									
Oxidation Reduction Potential, field	-203.1	mV																									
Dissolved Oxygen, field	0.11	mg/L																									
Turbidity, field	0.62	NTU																									

Turnaround Time (Business days)

- [x] Std. 10 Business Days
- [x] 5 Day RUSH (RSK only)
- [ ] 3 Day Emergency
- [ ] 2 Day Emergency
- [ ] 1 Day Emergency

Emergency & Rush T/A data available VIA LabLink. RUSH TAT approval needed.

Special Reporting Instructions

- [ ] Report in PPB
- [ ] Report in PPM
- [ ] Report MDLs

Data Deliverable Information

- [ ] Commercial "A" (Level 1, Results Only)
- [ ] Commercial "B" (Level 2, Results + QC Summary)
- [ ] COMMBN (Results/QC/Narrative)
- [ ] COMMBN+ [Results/QC/Narrative (+ chromatograms)]
- [ ] REDT2
- [ ] FULT1
- [x] EDD Format: COGCC Compatible

Comments / Special Instructions

*Dissolved Metals (200.7/200.8): BaMS, B, Ca, Fe,Mg, Mn, K, SeMS, Na, Sr

Please also send reports to Jordan.Fleming@absarokasolutions.com.

RUSH 5 DAY TAT FOR RSK.

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date/Time:	Received By:	Relinquished By:	Date/Time:	Received By:
1	4/21/25 18:00	1	2		2
Relinquished by Sampler:	Date/Time:	Received By:	Relinquished By:	Date/Time:	Received By:
3		3	4		4

Custody Seal # Intact [x] Not intact [ ] Absent [ ]

Preserved where applicable [x] Cooler Temp. °C: 3.3 Therm. ID: T030 On Ice [x]

Form MSQA 064-01, RV 6/19/17

SGS Sample Receipt Summary

Job Number: da71905 **Client:** ABSAROKA **Project:** GWA

Date / Time Received: 4/22/2025 12:50:00 PM **Delivery Method:** co **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.3);

Cooler Temps (Corrected) °C: Cooler 1: (3.3);

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. Suffiient 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 #s: pH 0-3: pH 10-12: Other: (Specify)

Residual Chlorine Test Strip Lot

Comments

SM001
Rev. Date 05/04/17

Technician: JEREMYD Date: 4/22/2025 1:16:39 PM Reviewer: Date:

MS Volatiles

6

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: DA71905
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V4353-MB	5V89741.D	1	04/24/25	MB	n/a	n/a	V5V4353

The QC reported here applies to the following samples: **Method:** SW846 8260B

DA71905-1

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	99%	70-130%
2037-26-5	Toluene-D8	97%	70-130%
460-00-4	4-Bromofluorobenzene	103%	70-130%

Blank Spike Summary

Job Number: DA71905
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V4353-BS	5V89739.D	1	04/24/25	MB	n/a	n/a	V5V4353

The QC reported here applies to the following samples: **Method:** SW846 8260B

DA71905-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	55.9	112	70-130
100-41-4	Ethylbenzene	50	53.9	108	70-130
108-88-3	Toluene	50	53.9	108	70-130
	m,p-Xylene	100	107	107	70-130
95-47-6	o-Xylene	50	53.4	107	70-130
1330-20-7	Xylene (total)	150	160	107	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	70-130%
17060-07-0	1,2-Dichloroethane-D4	97%	70-130%
2037-26-5	Toluene-D8	97%	70-130%
460-00-4	4-Bromofluorobenzene	101%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA71905
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA71861-1MS	5V89743.D	5	04/24/25	MB	n/a	n/a	V5V4353
DA71861-1MSD	5V89744.D	5	04/24/25	MB	n/a	n/a	V5V4353
DA71861-1	5V89742.D	5	04/24/25	MB	n/a	n/a	V5V4353

The QC reported here applies to the following samples: **Method:** SW846 8260B

DA71905-1

CAS No.	Compound	DA71861-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		250	271	108	250	269	108	1	70-130/30
100-41-4	Ethylbenzene	ND		250	264	106	250	260	104	2	70-130/30
108-88-3	Toluene	ND		250	267	107	250	261	104	2	70-130/30
	m,p-Xylene	ND		500	523	105	500	514	103	2	70-130/30
95-47-6	o-Xylene	ND		250	261	104	250	257	103	2	70-130/30
1330-20-7	Xylene (total)	ND		750	784	105	750	771	103	2	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	DA71861-1	Limits
1868-53-7	Dibromofluoromethane	101%	102%	102%	70-130%
17060-07-0	1,2-Dichloroethane-D4	100%	99%	99%	70-130%
2037-26-5	Toluene-D8	97%	98%	99%	70-130%
460-00-4	4-Bromofluorobenzene	101%	101%	101%	70-130%

* = Outside of Control Limits.

GC Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: DA71905
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA3035-MB	GA69565.D	1	04/23/25	MB	n/a	n/a	GGA3035

The QC reported here applies to the following samples: **Method:** SW846 8015C

DA71905-1

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	102%	60-140%

Method Blank Summary

Job Number: DA71905
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFK419-MB	FK55871.D	1	04/25/25	MB	n/a	n/a	GFK419

The QC reported here applies to the following samples: **Method:** RSK175 MOD

DA71905-1A

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.00080	0.00070	mg/l	
74-84-0	Ethane	ND	0.0016	0.0010	mg/l	
74-98-6	Propane	ND	0.0022	0.0017	mg/l	

Blank Spike Summary

Job Number: DA71905
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA3035-BS	GA69563.D	1	04/23/25	MB	n/a	n/a	GGA3035

The QC reported here applies to the following samples: **Method:** SW846 8015C

DA71905-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	2.2	1.72	78	64-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	79%	60-140%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: DA71905
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFK419-BS	FK55872.D	10	04/25/25	MB	n/a	n/a	GFK419

The QC reported here applies to the following samples: **Method:** RSK175 MOD

DA71905-1A

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
74-82-8	Methane	0.51	0.594	116	70-135
74-84-0	Ethane	0.956	1.18	123	70-150
74-98-6	Propane	1.4	1.66	118	70-145

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA71905
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA71791-12MS	GA69567.D	5	04/23/25	MB	n/a	n/a	GGA3035
DA71791-12MSD	GA69568.D	5	04/23/25	MB	n/a	n/a	GGA3035
DA71791-12	GA69566.D	5	04/23/25	MB	n/a	n/a	GGA3035

The QC reported here applies to the following samples: **Method:** SW846 8015C

DA71905-1

CAS No.	Compound	DA71791-12 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	5.12		11	14.2	83	11	14.3	83	1	56-130/30

CAS No.	Surrogate Recoveries	MS	MSD	DA71791-12	Limits
120-82-1	1,2,4-Trichlorobenzene	107%	106%	105%	60-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA71905
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA71905-1AMS [a]	FK55875.D	10	04/25/25	MB	n/a	n/a	GFK419
DA71905-1AMSD [a]	FK55876.D	10	04/25/25	MB	n/a	n/a	GFK419
DA71905-1A [a]	FK55873.D	1	04/25/25	MB	n/a	n/a	GFK419
DA71905-1A [a]	FK55874.D	10	04/25/25	MB	n/a	n/a	GFK419

The QC reported here applies to the following samples: **Method:** RSK175 MOD

DA71905-1A

CAS No.	Compound	DA71905-1A mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
74-82-8	Methane	3.35 [b]		0.51	3.97	122	0.51	3.95	118	1	20-183/30
74-84-0	Ethane	ND		0.956	1.10	115	0.956	1.10	115	0	50-140/30
74-98-6	Propane	ND		1.4	1.56	111	1.4	1.55	111	1	50-140/30

(a) The pH of the sample was > 2 at time of analysis. Bottles marked as preserved.
(b) Result is from Run #2.

* = Outside of Control Limits.

GC/LC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: DA71905
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27549-MB	FP079749.D	1	04/24/25	JB	04/24/25	OP27549	GFP186

The QC reported here applies to the following samples: **Method:** SW846 8015C

DA71905-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.18	0.13	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	80%	36-145%

Blank Spike Summary

Job Number: DA71905
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27549-BS	FP079750.D	1	04/24/25	JB	04/24/25	OP27549	GFP186

The QC reported here applies to the following samples: **Method:** SW846 8015C

DA71905-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-DRO (C10-C28)	3.64	3.73	103	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	99%	36-145%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA71905
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27549-MS	FP079751.D	1	04/24/25	JB	04/24/25	OP27549	GFP186
OP27549-MSD	FP079752.D	1	04/24/25	JB	04/24/25	OP27549	GFP186
DA71930-1	FP079754.D	1	04/24/25	JB	04/24/25	OP27549	GFP186

The QC reported here applies to the following samples: **Method:** SW846 8015C

DA71905-1

CAS No.	Compound	DA71930-1 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	ND		3.5	3.25	93	3.44	3.32	97	2	65-130/30

CAS No.	Surrogate Recoveries	MS	MSD	DA71930-1	Limits
84-15-1	o-Terphenyl	92%	94%	80%	36-145%

* = Outside of Control Limits.

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA71905
Account: ANADACOD - Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

QC Batch ID: MP41150
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 05/01/25

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.52	10		
Antimony	0.40	.01	.3		
Arsenic	0.20	.05	.05		
Barium	2.0	.096	.3	0.040	<2.0
Beryllium	0.20	.077	.1		
Boron	40	18	10	1.1	<40
Cadmium	0.10	.03	.05		
Calcium	400	25	60	13.4	<400
Chromium	2.0	.087	.27		
Cobalt	0.20	.04	.05		
Copper	2.0	.05	1.5		
Iron	20	1.6	10	3.8	<20
Lead	0.50	.094	.13		
Magnesium	100	10	20	-2.6	<100
Manganese	1.0	.079	.51	0.056	<1.0
Molybdenum	1.0	.037	.2		
Nickel	2.0	.098	.5		
Phosphorus	60	7.6	25		
Potassium	200	2	50	-36	<200
Selenium	0.40	.05	.1	-0.012	<0.40
Silver	0.10	.0081	.025		
Sodium	500	10	70	3.6	<500
Strontium	20	.1	5	0.034	<20
Thallium	0.20	.032	.05		
Tin	10	.22	2.5		
Titanium	2.0	.05	.5		
Uranium	0.20	.015	.05		
Vanadium	1.0	.14	.2		
Zinc	10	.05	2		

Associated samples MP41150: DA71905-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA71905
Account: ANADACOD - Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

QC Batch ID: MP41150
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 05/01/25

Metal	DA71949-1FA Original	MS	Spikelot ICPMS5	% Rec	QC Limits
Aluminum	anr				
Antimony	anr				
Arsenic	anr				
Barium	29.7	412	400	95.6	70-130
Beryllium	anr				
Boron	522	722	200	100.0	70-130
Cadmium	anr				
Calcium	266000	297000	5000	620.0(a)	70-130
Chromium	anr				
Cobalt					
Copper	anr				
Iron	742	1690	1000	94.8	70-130
Lead	anr				
Magnesium	29500	34500	5000	100.0	70-130
Manganese	481	585	100	104.0	70-130
Molybdenum	anr				
Nickel	anr				
Phosphorus					
Potassium	25500	31800	5000	126.0	70-130
Selenium	0.076	192	200	96.0	70-130
Silver	anr				
Sodium	324000	372000	5000	960.0(a)	70-130
Strontium	4070	4220	100	150.0(a)	70-130
Thallium	anr				
Tin					
Titanium					
Uranium					
Vanadium					
Zinc	anr				

Associated samples MP41150: DA71905-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA71905
Account: ANADACOD - Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

QC Batch ID: MP41150
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 05/01/25

Metal	DA71949-1FA Original	MSD	Spikelot ICPMS5	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	anr					
Barium	29.7	415	400	96.3	0.7	20
Beryllium	anr					
Boron	522	729	200	103.6	1.0	20
Cadmium	anr					
Calcium	266000	298000	5000	640.0(a)	0.3	20
Chromium	anr					
Cobalt						
Copper	anr					
Iron	742	1710	1000	96.8	1.2	20
Lead	anr					
Magnesium	29500	35100	5000	112.0	1.7	20
Manganese	481	591	100	110.0	1.0	20
Molybdenum	anr					
Nickel	anr					
Phosphorus						
Potassium	25500	32500	5000	140.0(a)	7.0	20
Selenium	0.076	191	200	95.5	0.5	20
Silver	anr					
Sodium	324000	366000	5000	840.0(a)	1.6	20
Strontium	4070	4350	100	280.0(a)	1.4	20
Thallium	anr					
Tin						
Titanium						
Uranium						
Vanadium						
Zinc	anr					

Associated samples MP41150: DA71905-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA71905
Account: ANADACOD - Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

QC Batch ID: MP41150
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 05/01/25

Metal	BSP Result	Spikelot ICPMS5	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	395	400	98.8	85-115
Beryllium	anr			
Boron	230	200	115.0	85-115
Cadmium	anr			
Calcium	4990	5000	99.8	85-115
Chromium	anr			
Cobalt				
Copper	anr			
Iron	974	1000	97.4	85-115
Lead	anr			
Magnesium	4930	5000	98.6	85-115
Manganese	96.3	100	96.3	85-115
Molybdenum	anr			
Nickel	anr			
Phosphorus				
Potassium	4960	5000	99.2	85-115
Selenium	195	200	97.5	85-115
Silver	anr			
Sodium	4890	5000	97.8	85-115
Strontium	96.6	100	96.6	85-115
Thallium	anr			
Tin				
Titanium				
Uranium				
Vanadium				
Zinc	anr			

Associated samples MP41150: DA71905-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

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

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA71905
Account: ANADACOD - Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Bicarbonate as CaC	GN66699	5.0	4.6	mg/l	100	103	102.7	90-110%
Alkalinity, Carbonate	GN66700	5.0	4.6	mg/l	100	103	102.7	90-110%
Alkalinity, Total as CaCO3	GN66698	5.0	4.6	mg/l	100	103	102.7	90-110%
Bromide	GP38485/GN66687	0.050	0.0	mg/l	0.5	0.516	103.2	90-110%
Chloride	GP38485/GN66687	0.50	0.0	mg/l	5	5.14	102.8	90-110%
Fluoride	GP38485/GN66687	0.10	0.0	mg/l	1	1.04	104.0	90-110%
Iron-Related Bacteria	MB1842	25	<25(a)	CFU/ml				
Nitrogen, Nitrate	GP38485/GN66687	0.010	0.0	mg/l	0.1	0.101	101.0	90-110%
Nitrogen, Nitrite	GP38485/GN66687	0.0040	0.0	mg/l	0.05	0.0530	106.0	90-110%
Phosphorus, Total	GP38501/GN66727	0.010	0.0	mg/l	0.2	0.192	95.9	90-110%
Slime Forming Bacteria	MB1844	500	<500(a)	CFU/ml				
Solids, Total Dissolved	GN66711	10	0.0	mg/l	250	1000	100.4	90-110%
Specific Conductivity	GP38516/GN66752			umhos/cm	10000	1410	99.9	90-110%
Sulfate	GP38485/GN66687	0.50	0.0	mg/l	5	5.24	104.8	90-110%
Sulfate Reducing Bacteria	MB1847	200	<200(a)	CFU/ml				

Associated Samples:
Batch MB1842: DA71905-1B
Batch MB1844: DA71905-1B
Batch MB1847: DA71905-1B
Batch GN66698: DA71905-1
Batch GN66699: DA71905-1
Batch GN66700: DA71905-1
Batch GN66711: DA71905-1
Batch GP38485: DA71905-1
Batch GP38501: DA71905-1
Batch GP38516: DA71905-1
(*) Outside of QC limits
(a) Certification for this test is not offered.

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA71905
Account: ANADACOD - Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Iron-Related Bacteria	MB1842	DA71760-1B	CFU/ml	150	150(a)	0.0(a)	0-%
Phosphorus, Total	GP38501/GN66727	DA71696-1	mg/l	0.028	0.030	6.9	0-20%
Slime Forming Bacteria	MB1844	DA71760-1B	CFU/ml	<500	<500(a)	0.0(a)	0-%
Solids, Total Dissolved	GN66711	DA71930-1	mg/l	609	621	2.0	0-5.44%
Specific Conductivity	GP38516/GN66752	DA71987-1	umhos/cm	1920	1930	0.2	0-20%
Sulfate Reducing Bacteria	MB1847	DA71760-1B	CFU/ml	<200	<200(a)	0.0(a)	0-%

Associated Samples:
Batch MB1842: DA71905-1B
Batch MB1844: DA71905-1B
Batch MB1847: DA71905-1B
Batch GN66711: DA71905-1
Batch GP38501: DA71905-1
Batch GP38516: DA71905-1
(*) Outside of QC limits
(a) Certification for this test is not offered.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA71905
Account: ANADACOD - Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Bromide	GP38485/GN66687	DA71905-1	mg/l	0.61	5	5.8	104.2	80-120%
Chloride	GP38485/GN66687	DA71905-1	mg/l	56.7	50	113	112.6	80-120%
Fluoride	GP38485/GN66687	DA71905-1	mg/l	2.0	10	12.6	106.0	80-120%
Nitrogen, Nitrate	GP38485/GN66687	DA71905-1	mg/l	0.0	1	1.2	120.0	80-120%
Nitrogen, Nitrite	GP38485/GN66687	DA71905-1	mg/l	0.0	0.5	0.47	94.0	80-120%
Phosphorus, Total	GP38501/GN66727	DA71842-1	mg/l	0.011	0.2	0.21	97.6	90-110%
Sulfate	GP38485/GN66687	DA71905-1	mg/l	5.1	50	63.5	114.2	80-120%

Associated Samples:
Batch GP38485: DA71905-1
Batch GP38501: DA71905-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA71905
Account: ANADACOD - Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Bromide	GP38485/GN66687	DA71905-1	mg/l	0.61	5	5.7	1.7	20%
Chloride	GP38485/GN66687	DA71905-1	mg/l	56.7	50	111	1.8	20%
Fluoride	GP38485/GN66687	DA71905-1	mg/l	2.0	10	12.3	2.4	20%
Nitrogen, Nitrate	GP38485/GN66687	DA71905-1	mg/l	0.0	1	1.0	18.2	20%
Nitrogen, Nitrite	GP38485/GN66687	DA71905-1	mg/l	0.0	0.5	0.46	2.2	20%
Sulfate	GP38485/GN66687	DA71905-1	mg/l	5.1	50	56.6	11.5	20%

Associated Samples:
Batch GP38485: DA71905-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits